Best Test

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PROFESSIONAL PRODUCTS

GENERAL CATALOG

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NTSC/EIA

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3-CCD Color Video Camera

KY-90U

FEATURES

- **New super high sensitivity 3 chip system of 2/3 inch FIT (frame interline transfer) CCDs with 380,000 pixels. Images are free from smear, moire and aliasing.**
- **Superb horizontal resolution of 700 lines, S/N ratio of 62 dB and sensitivity of F7.0 at 2000 lux (186 fc) achieved by utilizing advanced microlense CCD technology.**
- **Intelligent and detailed auto IRIS and ALC settings can be customized.**
- **Full time auto white available on demand**
- **Ergometrically designed with die-cast magnesium construction for durability, light weight and ease of shooting.**
- **Multi format compatibility: dockable with S-VHS, M-II, and BETACAM portable recorders (Adapter required for M-II and BETACAM VTR connections)**
- **Front of the camera audio level adjustment and onscreen level display**
- **Voice warning system for VTR operation, end of tape, low battery, etc.**
- **Color matrix circuit for highly accurate color reproduction.**
- **Extended dynamic range with auto knee circuit is 5X normal range.**
- **ADSC control (auto dynamic shading compensation) continuously adjusts for variations in shading at any soom position, IRIS opening and extender setting.**
- **High speed electronic shutter (1/100, 1/250, 1/500, 1/1000, 1/2000 sec, and special 60 Hz flicker reduction setting)**
- **8 combination filter turret/auto white memories**
- **Viewfinder display selectable to the test output**
- **XLR microphone input with selectable levels (-60, -40, -20 dB) and 48 volt phantom power**
- **Large and high resolution viewfinder. VTR record time, tape remain time, safety zone and centering information through viewfinder.**
- **Built in time/date/title generator.**

KY-90U
Standard Composition (Lens, viewfinder and adapter are optional)

SPECIFICATIONS

Optical system	Three CCD prism system, F1.4
Lens mount	Bayonet mount (2/3" format)
Optical filter	3200°K, 5600°K + 25% ND, 5600°K, 5600°K + 6.3% ND
Image pickup device	2/3" FIT CCDs
Number of effective pixels	772 (H) x 492 (V)
Sensitivity	F7.0, 2000 lux (186 fc)
Minimum required illumination	16 lux (at F1.7, +18 dB), 10 lux (at F1.4, +18 dB)
Sensitivity selection	0 dB/9 dB/+18 dB (-3 dB, 0 dB, +6 dB, +9 dB, +12 dB, +18 dB selectable)
S/N ratio	62 dB typical (4.2 MHz bandwidth) gamma = 1, contour correction: OFF, IQ switches: OFF, Matrix masking: OFF
Registration	0.05% (entire-picture, excluding lens distortion)
Horizontal resolution	700 TV lines (Y signal, at center), RETMA pattern
Contour correction	Horizontal; Dual-edged (horizontal correction signal; G+R) Vertical; Dual-edged (2H)
Encoder	NTSC IQ encoder
Synchronization system	Internal (NTSC; Built-in RS-170A SSG) External (external sync signal; VBS or BB)
Adjust blanking	Horizontal; 10.6/10.8/10.9 µsec switchable Vertical; 18/19/20 lines switchable
Color bars generator	Built-in SMPTE color bars

Auto iris	Presettable control using Memory Function (1. Peak/average balance, 2. Light measuring area, 3. Iris level, 4. Iris speed)
Electronic shutter	Selectable shutter speeds: 1/100, 1/250, 1/500, 1/1000, 1/2000 sec.
Video signal output	Composite video signal; 1 Vp-p (High impedance) Y/C 358 signal (compatible with S-VHS); Y: 1 Vp-p, with sync (1 kΩ) C: 0.286 Vp-p (1 kΩ) Component signals (R/G/B); 1.4 Vp-p (High impedance) Component signals (Y/R-Y/B-Y); Y: 1 Vp-p, with sync (High impedance) R-Y: 0.486 Vp-p (for MII) or 0.7 Vp-p (for BETACAM) switchable (High impedance) B-Y: 0.486 Vp-p (for MII) or 0.7 Vp-p (for BETACAM) switchable (High impedance)
Test output	Composite video signal (VBS), 1 Vp-p (any one of R, G, B, R-G, B-G signal can be selected using the memory function)
Audio signal input	Switchable to -60, -40, -20 dBm (+48V PHANTOM MIC possible)
Audio signal output	–20 dBs, balanced (50-pin connector)
Power source	12 V DC (10.5 V to 17 V)
Current consumption	1.2A (without KA-35U, viewfinder and lens)
Ambient operating temperature	–20°C to +45°C (–4°F to +113°F)
Weight	2.2 kg (4.9 lbs.) (without KA-35U viewfinder, lens, microphone and VTR)

All model numbers, specifications and prices are subject to change without notice.

3-CCD Color Video Camera

KY-35U

FEATURES

- Three 2/3" IT (Interline Transfer) CCDs with 400,000 pixels
- Superb horizontal resolution of 700 lines, S/N of 62 dB and sensitivity of F7.0 at 2000 lux (186 fc)
- Advanced memory system for recalling customs files stored on an IC card
- Multi format compatibility: can be docked with S-VHS, MII and BETACAM VTRs (Exclusive adapters are needed for docking with MII/BETACAM VTRs)
- Synthesized voice alarms for VTR warning, end of tape and low battery, etc.
- Intelligent auto iris system
- Extended dynamic range with an Auto Knee circuit (Five times or more)
- ALC (Auto Level Control) circuit for controlling depth of field
- Easy-to-read timer
- ADSC (Auto Dynamic Shading Compensator) for lens characteristics from tele to wide
- Auto white memory
- Adjustable record level control
- XLR audio input connector

KY-35U
Standard Composition
(Lens, viewfinder and adapter are optional)

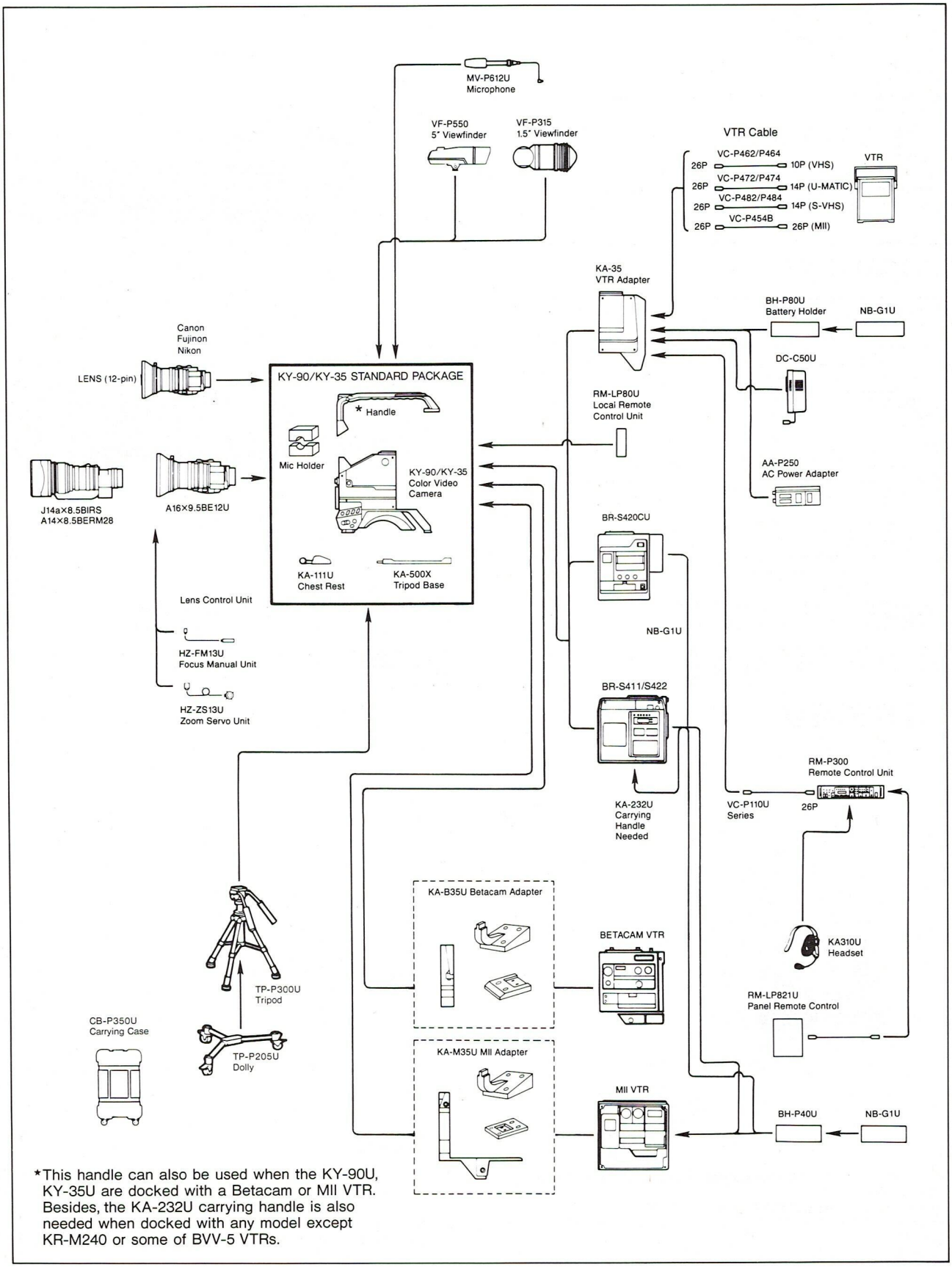
SPECIFICATIONS

Image Pickup Device	2/3" IT CCD × 3 (R, G, B)
Color Separation Optical System	3-color separation PHILIPS-type prism
Ellective Number of Pixels	768 (H) × 493 (V)
Smear Level	– 90 dB typical
Color System	NTSC, IQ method encoder
Synchronizing System	Internal: Built-in SSG External: VBS or BB (Composite video or Black Burst signal)
Lens Mount	2/3" bayonet
Optical Filter	1) 3200K 2) 5600K + 25%ND 3) 5600K 4) 5600K + 6.3%ND
Sensitivity	F7.0 at 2000 lux (186 fc)
Minimum Illumination	16 lux at F1.7 with +18 dB switch ON
S/N Ratio	62 dB
Horizontal Resolution	700 TV lines (at center), 530 TV lines (R, G and B)
Sensitivity Selection	Basic mode: 0 dB/+9 dB/+18 dB (– 3, 0, +6, +9, +12 dB selectable)
Registration	0.05% (without lens distortion) in all areas
Contour Correction	Horizontal: 2T, dual-edged Vertical: 2H (Horizontal correction signal: G + R) with comb filter
Gamma Correction	0.4 – 0.5 presettable
Color Matrix	Built-in
ADSC Compensation	Built- in
Dynamic Range	500 – 600%
Auto Knee	85 – 105 IRE presettable (Standard: 90 IRE)
Flare Compensation	R, G, B compensation
Auto Iris	Presettable: 1) PEAK/APL level 2) Photometric area 3) IRIS level 4) IRIS speed
Auto White	Interlocked with optical filter, 2 modes (AW1/AW2)
Auto Black	Controlled at absolute value

Color Bar Signal	SMPTE color bar
Electronic Shutter Speed	1/60 (Normal), 1/100, 1/250, 1/500, 1/1000, 1/2000 (Switchable)
Output Signals Video Signals	1) Composite video signal: 1.0 Vp-p, 75 ohms (BNC 26P) 2) Separate Y/C signal: Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms (7P, 26P) 3) Component video signal: Y: 1.0 Vp-p, 75 ohms (26P) *2) or 3) is selectively outputted from the same 26-pin connector
Test Signal	R, G, B, R-G, B-G, RET (BNC)
Audio Signal	– 20 dBs
Audio Monitor Signal	8 ohms (From VTR)
Input Signals Audio Signal	– 60/– 40/– 20 dBm selectable (+48V PHANTOM MIC possible)
Return Video Signal	1.0 Vp-p, 75 ohms
External Sync Signal	Composite signal: 1.0 Vp-p, 75 ohms or Black Burst signal: 0.43 Vp-p
Microphone Signal	– 52 dBm (STEREO/MONAURAL switchable)
Power Requirement	12V DC (10.5 – 17V)
Power Consumption	1.2A
Ambient Temperature Range	– 20°C – +45°C
Dimensions (W × H × D)	104 × 283 × 300 mm incl. camera adapter KA-35 (4-1/8" × 11-3/16" × 11-13/16")
Weight	3.2 kg (7.1 lbs.) with camera adapter KA-35

All model numbers, specifications and prices are subject to change without notice.

KY-90U/KY-35U System Configuration



*This handle can also be used when the KY-90U, KY-35U are docked with a Betacam or MII VTR. Besides, the KA-232U carrying handle is also needed when docked with any model except KR-M240 or some of BVV-5 VTRs.

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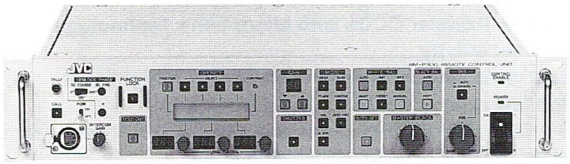
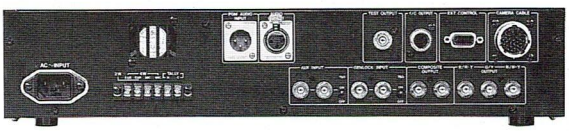
Remote Control Unit RM-P300U

FEATURES

- Extendable up to 300 m (984 ft.) via VC-P110 series multicore cable
- Can output composite, Y/C 358 and component signals (Y, R-Y, B-Y or R, G, B, slectable)
- One audio output and one program input are available
- Can be connected to the Panel Remote Control Unit RM-LP821 for remote operation
- Adoption of LCD at the base station for simple operation





SPECIFICATIONS

Input Signals External Sync Signal	VBS: 1.0 Vp-p or BB: 0.43 Vp-p, 75 ohms, bridge-connectable
AUX VIDEO Signal	VBS: 1.0 Vp-p, 75 ohms, VS:1.0 Vp-p, 75 ohms, bridge-connectable
Intercom Signal	2W (– 10 dB, 600 ohms, balanced)/ 4W (0 dB, 600 ohms, balanced)
Program Audio Signal	– 10 dB, 600 ohms, unbalanced
Tally Signal	Make-contact or power (5 – 24V DC or 6V AC) supply
Output Signals Video Signal	VBS × 2, YC × 1, R·G·B/Y·R-Y·B-Y (Switchable) × 1
Test Signal	VBS × 1
Audio Signal	2ch.
Power Requirement	120V AC, 50/60 Hz
Power Consumption	63W (incl. camera furnished with VF-P550)/ 23W (RM-P300 only)
Ambient Temperature Range	– 10°C–+45°C
Dimensions (W × H × D)	482 × 93 × 366.5 mm (19" × 3-11/16" × 14-7/16")
Weight	6.8 kg (15.0 lbs.)

PANEL REMOTE CONTROL UNIT

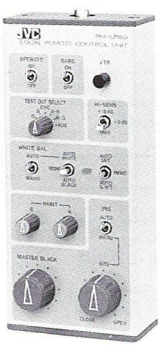
RM-LP821U

FEATURES

- Controls major functions for camera operation, connected via the RM-P300U
- Power requirement: DC 9V (from RM-P300U)
- Dimensions (W × H × D): 95 × 177 × 100 mm (3-3/4" × 7" × 3-15/16")
- Weight: 1.2 kg (2.7 lbs) (without cable)

LOCAL REMOTE CONTROL UNIT

RM-LP80U



FEATURES

- A handed-held remote control unit via the KY-90U/KY-35U/KY27U for the major functions of the camera
- Cable length: 100 meters (328 feet)
- Power requirement: 9V DC (from KY-90U/KY35U/KY-27U)
- Dimensions (W × H × D): 80 × 180.5 × 57.5 mm (3-3/16" 7-1/8" × 2-5/16")
- Weight: 580 g (1.3 lbs)

All model numbers, specifications and prices are subject to change without notice.

3-CCD Color Video Camera

KY-27U

FEATURES

- **New 360,000 pixel Broadcast 2/3" CCDs deliver 750 lines of horizontal resolution for natural, sharp pictures.**
- **Interline Transfer CCDs with Micro Lens Technology provide**
  ***high sensitivity**
  ***Negligible vertical smear when shooting highlights**
- **High S/N ratio of 62 dB for quiet pictures.**
- **New CCD signal process technology in LOLUX mode requires only 2 lux for shooting in almost total darkness.**
- **Full Auto Shooting with manual override provides AUTO IRIS with MULTIZONE IRIS WEIGHTING, ENHANCED VARIABLE GAIN (ALC: AUTOMATIC LEVER CONTROL), VARIABLE SHUTTER (EEI: EXTENDED ELECTRONIC IRIS), and FULL TIME AUTO WHITE.**
- **Universal dockability-dockable directly with Professional S-VHS, and adapters allow docking with MII, HI-8, Professional Betacam and Broadcast Betacam.**
- **Variable Scan for shooting flicker-free computer displays.**
- **Professional vertical plug-in PC boards with all potentiometers on the edge for easy serviceability.**
- **A Star Filter creates dramatic 4-point star effects.**
- **The AMS (Advanced Memory Systems) incorporated into the KY-27U stores camera setting for various shotting conditions.**
- **Low power consumption 12.4 watts of power with camera adapter and viewfinder**
- **Viewfinder Status System: a camera operator can keep track of Audio levels, Accumulated or Remaining Recording Time, VTR operation, Battery Voltage and Camera Setup.**
- **Multizone Iris weighting with Automatic Peak/Average Detection for Auto Iris**

KY-27U
(with BR-S422U)

SPECIFICATIONS

Optical system: 2/3" F1.4 RGB prism system

Pickup device: 2/3" Interline-transfer CCD, 3-chip

Picture elements: 360,000 (effective) (728H × 493V)
Total picture elements: 380,000

Encoder: NTSC (Wide-band R-Y/B-Y system), 1.3 MHz

Synchronizing system: Internal/External

Optical filter: 3200°K, 5600°K, 5600°K+1/16 ND, 4-Point Star Effect 3200°K

Lens mount: 2/3" bayonet

Sensitivity: F8 at 2000 lux, 0dB gain

Minimum illumination: 7.5 lux (+18dB, F1.4)
2 lux (LOLUX mode, F1.4 equivalent to +30dB gain)

S/N: 62dB typical (Contour correction OFF, Gamma 1, Bandwidth 4.2 MHz, Matrix OFF)

Horizontal resolution: 750 TV lines,
540 TV lines (R/G/B)

Registration: 0.05% (without lens distortion) in all areas

Contour correction: Horizontal: Dual-edged
Vertical: 2H

Color bars: SMPTE type

Gain boost: 0, 6, 9, 12, 18, Variable gain in ALC

LOLUX: 30dB gain equivalent

Shutter speeds: 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, Variable shutter in ALC

Variable scan: 1/60.2~1/1966.7, 256 steps

Output signals (KA-27U): Video signals:
1. Composite video signal: 1.0Vp-p, 75Ω (BNC, 26P)
2. Separate Y/C signal: Y: 1.0Vp-p
   C: 0.286Vp-p, 75Ω (7P, 26P)
3. Component video signal: Y: 1.0Vp-p, 75Ω
   R-Y/B-Y: 0.486Vp-p or 0.7Vp-p, 75Ω (26P)
4. R/G/B signal: R/G/B: 0.7Vp-p, 75Ω (26P)
   (2, 3 or 4 is selectively output from the same 26-pin connector.)

Audio signal: -60/-20dBm selectable (Stereo/Monaural applicable), 600Ω balanced

Input signals:
Returen video signal: VBS: 1.0Vp-p, 75Ω (26P, 50-pin docked)
Genlock signal: VBS: 1.0Vp-p, 75Ω (BNC, 26P)
BB: 0.43Vp-p, 75Ω (BNC, 26P)
Audio signal: Mic level JVC 6P, XLR:
JVC 6P: -52dBm, unbalanced
9V power, Stereo/Mono
XLR: -60dBm, balanced

Power requirement: +12V DC (Normal) 10.5V to 18V DC (Permissible battery range)

Power consumption (Typical):
12.4W with camera adapter and viewfinder
11.9W with viewfinder only
9.6W without adapter or viewfinder

Ambient temperature: -10°C to +45°C (14°F to 113°F)

Weight: 2.0 kg (4.4 lbs) (camera head only)

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1/2" 3-CCD Color Video Cameras

KY-17BU/KY-17FITU

FEATURES

- **KY-17FITU utilizes three 1/2-inch FIT (frame interline transfer) CCDs, each with 360,000 pixels. Noise and highlight smearing are dramatically reduced.**
- **KY-17BU utilizes three 1/2-inch IT (interline transfer) CCDs with a micro lens over each sensor pixel for high sensitivity and reduced highlight smearing.**
- **Horizontal resolution (KY-17FITU) 700 Lines**
  (KY-17BU) 640 Lines
- **Microprocessor - controlled setup function for white and black balance adjustment**
- **Designed for camcorder integration, docking directly with the BR-S411BU/BR-S422U and the BR-S420CU professional S-VHS recorders and with MII and BETACAM recorders via optical adapters**
- **Four position filter turret (3200K, 5600K, 5600K + ND and Closed)**
- **"Zebra pattern" 90 IRE video level indicator**
- **2H vertical contour correction circuit**
- **Color matrix circuit for accurate color reproduction**
- **Flare correction circuit in each of R, G, and B channels**
- **Negative/positive image reversal**
- **High-speed electronic shutter (1/100, 1/250, 1/500, 1/1000 and 1/2000 sec)**
- **Hot shoe connection for optional stereo microphone**
- **A wide variety of lens options**
- **Comprehensive on screen status display gives key data and warning indications, as well as for some recorders**
- **RS-170A sync signal generator**
- **External sync input for genlock**

KY-17FITU
(with optional lens HZ-713U)

SPECIFICATIONS

Optical system	1/2" F1.4 RGB prism system
Pickup device	KY-17BU: 1/2" IT CCD. 3-chip KY-17FITU: 1/2" FIT CCD. 3-chip
Picture elements	KY-17BU: 330,000 (effective) Total picture elements: 360,000 KY-17FITU: 360,000 (effective) Total picture elements: 380,000
Encoder	NTSC (Wide-band R-Y/B-Y system)
Synchronizing system	Internal: Built-in SSG, conforming to RS-170A External: VBS or BB
Optical filter	Closed. 3200K, 5600K, 5600K + 25% ND
Lens mount	1/2" bayonet
Sensitivity	KY-17BU: F7.0 at 2000 lux (186 fc) KY-17FITU: F5.0 at 2000 lux (186 fc)
Minimum illumination	KY-17BU: 10 lux at F1.4 with +18 dB switch ON KY-17FITU: 20 lux at F1.4 with +18 dB switch ON
S/N	60 dB typical (Contour correction OFF, Gamma 1, Bandwidth 4.2 MHz, Matrix OFF)
Horizontal resolution	KY-17BU: 640 TV lines (Y ch)
	KY-17FITU: 700 TV lines (Y ch)
Registration	0.05% (without lens distortion) in all area
Contour correction	Horizontal: Dual-edged
	Vertical: 2H
Color bar generator	Provided (full-field)

Gain boost	+9 dB, +18 dB
Output signals	Video signal: 1. Composite video signal: 1.0 Vp-p, 75Ω (BNC, 26P) 2. Separate Y/C signal: Y: 1.0 Vp-p, C: 0.286 Vp-p, 75Ω (7P, 26P) 3. Component video signal: Y: 1.0 Vp-p, R-Y/B-Y: 0.486 Vp-p, 75Ω (26P) 4. R/G/B signal: R/G/B 0.7 Vp-p, 75Ω (26P) (2.3 or 4 is selectively output from the same 26-pin connector) Test signal: Composite R/G/B selectable (BNC) Audio signal: –52/–20 dBm selectable (Stereo/Monaural applicable) Audio monitor signal: 8Ω (From VTR)
Input signals	Return video signal: 1.0 Vp-p, 75Ω (BNC) Genlock signal: VBS: 1.0 Vp-p, 75Ω or BB: 0.43 Vp-p, 75Ω (BNC) Microphone signal: –52 dBm (Stereo/Monaural applicable)
Electronic shutter	1/100, 1/250, 1/500, 1/1000, 1/2000 sec.
Power requirement	+12V DC
Power consumption	KY-17BU: 1.5A (with 1.5" viewfinder VF-P10U) KY-17FITU: 1.6A (with 1.5" viewfinder VF-P10U)
Ambient temperature	–5°C to +45°C (23°F to 113°F)
Dimensions	113.5(W) x 278(H) x 276.5(D) mm (4-1/2" x 11" x 10-15/15") with camera head, camera adapter, carrying handle and shoulder pad
Weight	2.7 kg (6.0 lbs.) with camera adapter

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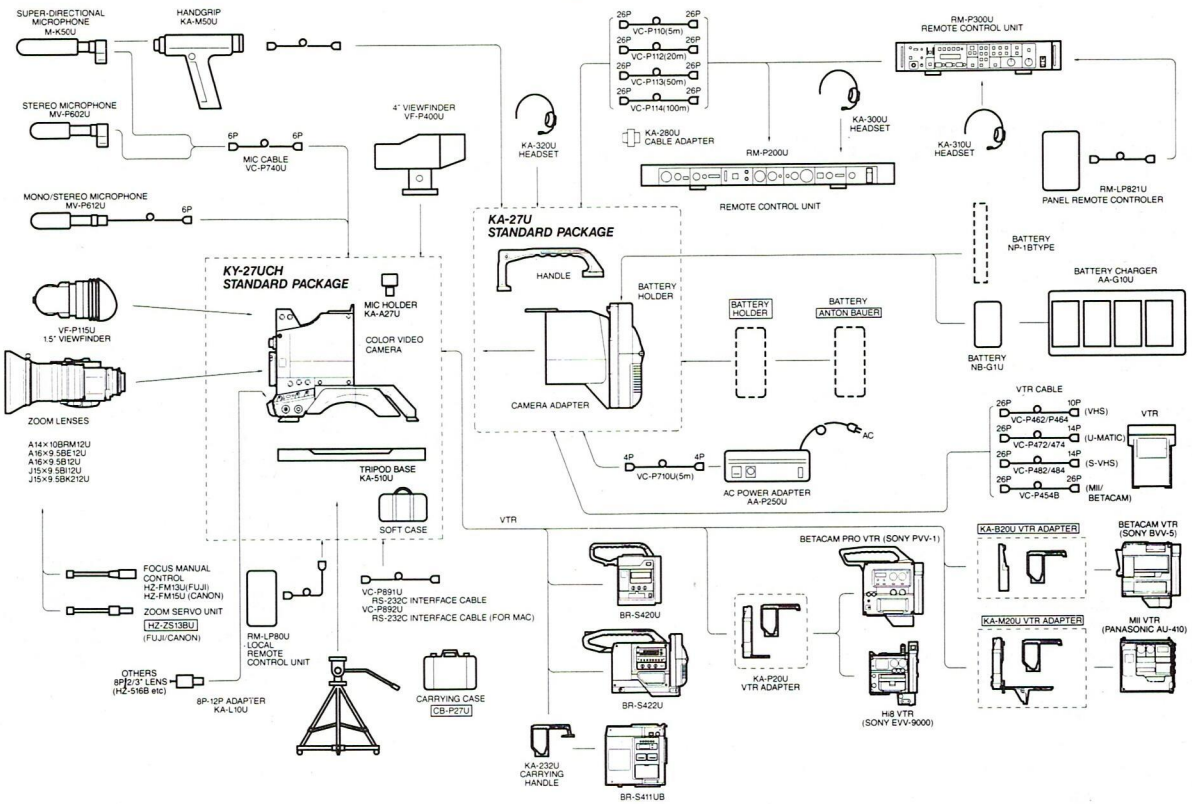
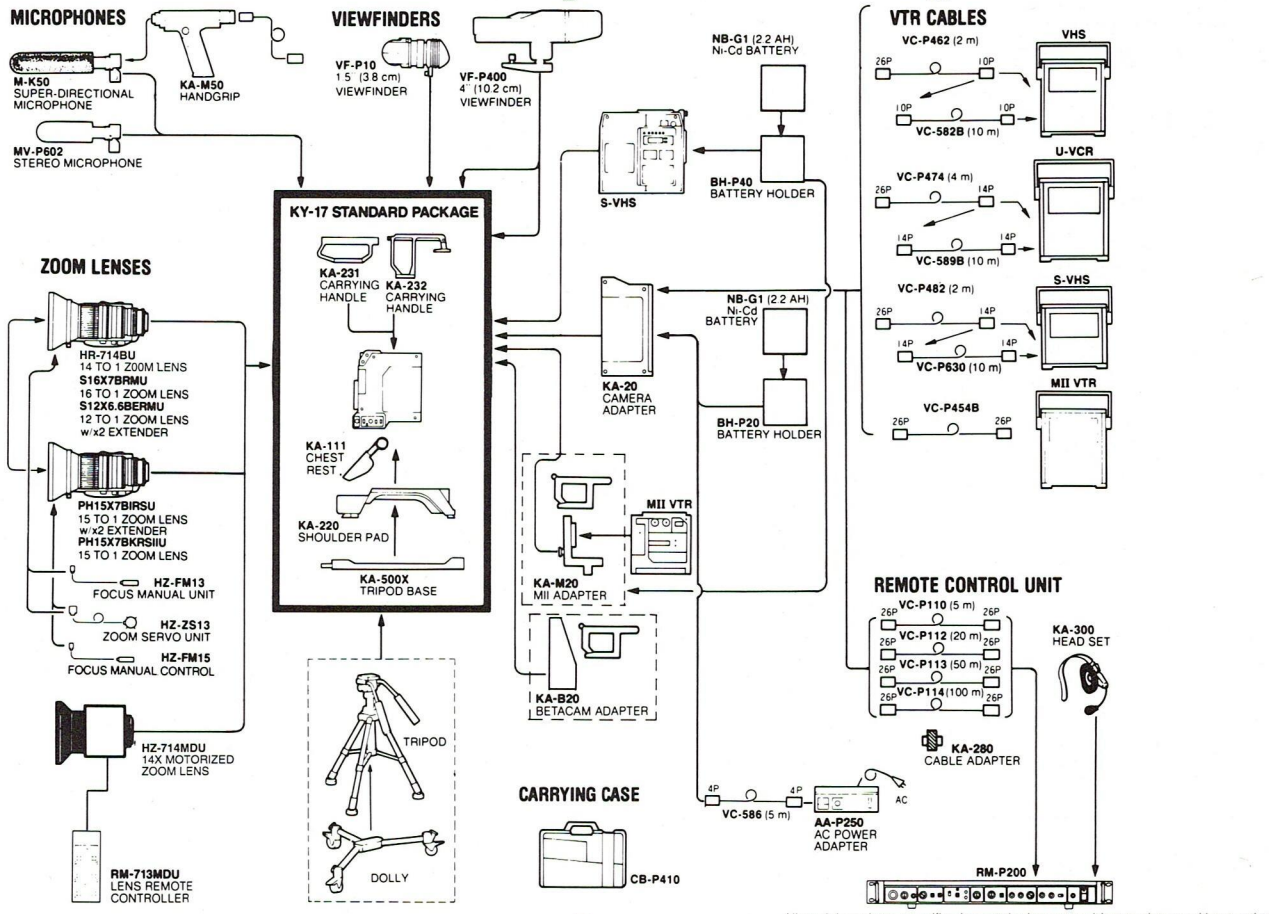
KY-27U/KY-17BU/KY-17 FITU System Configuration

KY-27U System Configuration



KY-17BU/KY-17FITU System Configuration



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REMOTE CONTROL UNIT

RM-P200U

FEATURES

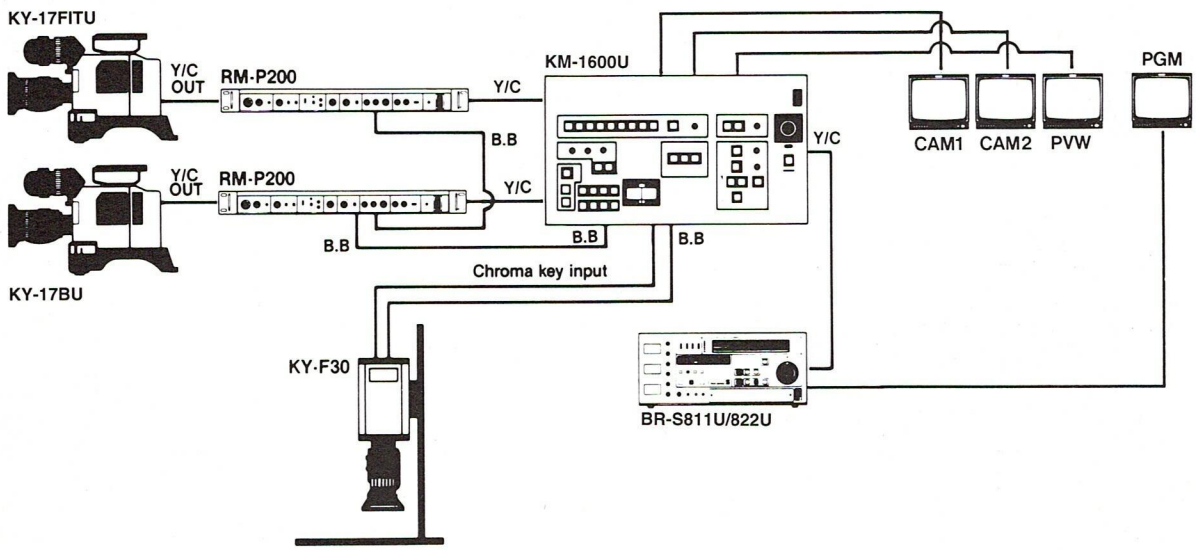
- **Controls cameras KY-27U, KY-17BU/KY-17FITU over extended distance of over 100 meters (325 ft)**
- **Ideal for normal applications such as studio production, remote truck teleconferencing. or computer graphics**
- **Built-in genlock function**
- **Serial data communications for more reliable and accurate communications between the camera and RCU**
- **Multi-format outlets supply; R/G/B component for computer graphics and keying plus Y/R-Y/B-Y component for MII or Y/C 3.58 for S-VHS products**

SPECIFICATIONS

OUTPUT SIGNAL
Composite video signal: 1 Vp-p, 75 Ω × 2
R/G/B signals: 0.7 Vp-p, 75 Ω × 1 each (without sync)
Y/R-Y/B-Y signals: Y: 1 Vp-p, R-Y: 0.486 Vp-p, B-Y: 0.486 Vp-p, 75 Ω each
Y/C 358 signals: Y: 1 Vp-p, 75 Ω. C: 0.286 Vp-p 75 Ω (burst level)
Intercom signal: Two-wire system, –10 dB, 600 Ω balanced
INPUT SIGNALS
Genlock signal: Composite video signal 1 Vp-p, 75 Ω (Loop-through output) Black burst signal 0.43 Vp-p, 75 Ω (Loop-through output)
AUX signal: Composite video signal 1 Vp-p, 75 Ω (Loop-through output)
Intercom signal: Two-wire system, –10 dB, 6000 Ω balanced
Tally signal: Make-contact or power (5 — 24V DC or 6V AC) supply

SYSTEM CONNECTION

Perfect Y/C Process Studio



All model numbers, specifications and prices are subject to change without notice.

3-CCD Camera with S-VHS-C Recorder

GY-X1TCAUL14

FEATURES

- Minimum illumination 20 lux (F1.4, 18 dB)
- The first integrated camera for professional use with a built-in S-VHS-C recorder
- Newly developed three 1/2" CCDs with 360,000 pixels (330,000 effective)
- S/N ratio of 59 dB, horizontal resolution of 600 lines high sensitivity and remarkable smear reduction
- Compact and light weight at just 11 lbs. (incl. viewfinder and lens) with a rugged die-cast aluminum body
- Advanced memory system with IC card
- Quick Rec. mode for quick recording
- Intelligent auto-iris circuits for total control in any lighting conditions
- The new 14x mechanical inner focus zoom lens (HZ-714U)
- Voice warning system with built-in speaker
- Sixteen status settings and nine level controls
- Intelligent auto iris designed for professionals
- Self-diagnostic system
- Electronic shutter with a full range of speeds (1/100, 1/250, 1/500 and 1/1000)
- Built-in VITC time code generator
- Built-in miniature microphone (XLR × 2 and 6p connectors are also equipped)
- Built-in Title generator

(Microphone is optional)

SPECIFICATIONS

CAMERA SECTION
Image pickup device: 1/2-inch interline CCDs
Color separation optical system: 3-color separation prism
Number of effective pixels: 330K
Color system: NTSC (R-Y, B-Y encoder)
Sync system: Internal sync/external sync
Lens mount: Bayonet system (compatible with lenses for 1/2" CCD cameras)
Optical filter: 3200K, 5600K, 5600 + 12.5%ND
Sensitivity: F5.0, 2000 lux
Gain: 0, +6, +9, +12, +18 dB, ALC (Selectable in advane memory system)
S/N ratio: 59 dB (typical)
Horizontal resolution: 600 lines (luminance signal)
Registration: 0.05% or less (excluding lens distortion)
Contour correction: Horizontal dual-edged, vertical dual-edged
Shutter speeds: 1/100, 1/250, 1/500, 1/1000
VTR SECTION
Format: S-VHS standard
Tape speed: 33.4 mm/sec.
Record/playback time: 20 min (with ST-C20 cassette)
Fast forward/rewinding time: 4 min or less
Cassette tape: S-VHS-C
Number of audio tracks: 3 (HiFi: 2, normal: 1)
Horizontal resolution: Color 400 lines (in S-VHS mode)
Video S/N ratio: S-VHS···43 dB (46 dB: when recorded tape is played back on BR-S811U), VHS: 42 dB (45 dB: when recorded tape is played back on BR-S811U)
Audio S/N ratio: 40 dB or more (NORMAL)

INPUT/OUTPUT SIGNALS
Video signal output: 1.0V BNC
Audio signal output: – 6 dB (low impedance), XLR, R/L
Lens: 12-pin connector
Y/C signal: 7-pin connector
DC input: XLR 4-pin connector
Genlock input: 1.0V, BNC
Camera output: 1.0V, BNC
Remote connector: For connection of optional RM-LP80
GENERAL
Power cosumption: 25W or less (including the lens and view-finder)
Weight: apx. 11 lbs (including lens, viewfinder)
Operating temperature range: 0°C ~ 40°C

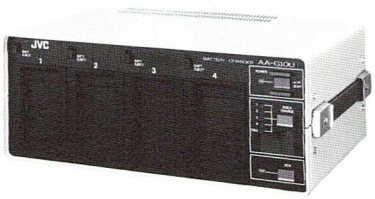
All model numbers, specifications and prices are subject to change without notice.

GY-X1TCAUL14 Optional Accessories

Provided Accessories:

VF-P115U (1.5-inch Viewfinder)
HZ-714U (14x Zoom Lens)
BH-P10U (Battery Holder)
KA-A10U (MV-P612U MIC Holder)
KA-500XU (Tripod Base)
SA-CP11U (C Cassette Adapter)

Optional Accessories:



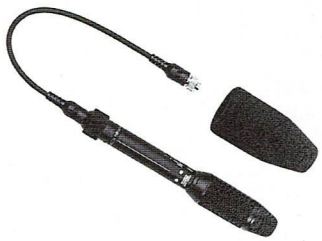
AA-G10U
Battery Charger

AA-P250U
AC power adapter/
charger

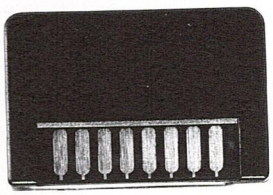
RM-LP80U
Local Remote Control Unit

HZ-MC73U
Mount Adapter (1/2" TO 2/3")

NB-G1U (2.2AH)
Battery Pack



MV-P612U
Super directional/
stereo microphone



KA-1000U
Custom IC card

KA-LP10U
Lens Exchange Connector

KA-F10U
Filter Set

All model numbers, specifications and prices are subject to change without notice

3-CCD COLOR VIDEO CAMCORDER FULL CASSETTE

GY-X2

FEATURES

- **Rugged Single Piece Construction**
- **Full Size Professional S-VHS format with JVC Professional S compatible Auto Video Signal Equalization and ALU Chroma Noise Reduction system**
- **LoLux mode for low light shooting in Full Color *when it is hard to see with the naked eye!***
- **Optional Internal SMPTE VITC/LTC Time Code Generator**
- **Quick Record Mode**
- **Insert Editing**
- **Variable Scan for Shooting Computer Displays**
- **Independent Channel 1 normal/3 Hifi and 2 normal/4 Hifi Audio level Adjustment**
- **Built in Speaker for record, playback and warning Audio**
- **Advanced Power System with**
  - **Low power consumption (40 minutes with standard single battery)**
  - **JVC NB-G1 and NP-1 flat type battery holder**
  - **Compatible to Anton Bauer and PAG battery mounts**
  - **High Sensitivity of F7 at 2000 Lux, due to Microlens CCD Technology**
  - **Professional 1/2 inch 3CCD Bayonet Lens Mount and optional Studio type Remote Trigger/Zoom and Focus controls.**
  - **Electronic shutter speeds from 1/60 to 1/2000 sec**
  - **Superb quality Hifi Audio and switchable Limiter**
  - **Viewfinder On Screen Status and Backlit LCD Audio/VTR function display**
  - **Edit Search, Preroll and Flying Erase head functions, combined with a full size head drum for seamless pickup edits**

SPECIFICATIONS

CAMERA SECTION

Image pickup device: 1/2-inch interline CCDs

Color separation optical system: 3-color separation prism

Number of effective pixels: 330,000 pixels

Color system: NTSC (R-Y, B-Y encoder)

Color bars: Full color type

Sync system: Internal/external sync (auto)

Lens mount: Bayonet system (FB 35.74 mm. 1/2" CCD cameras)

Optical filter: 3200 K, 5600 K, 5600 K + ND

Sensitivity: F7, 2000 lux

Gain: 0, +9 dB, +18 dB, LOLUX, ALC

Minimum illumination: 10 lux with F1.4, +18 dB gain

Lolux minimum illumination: 3 lux with F1.4

S/N ratio: 60 dB (typical)

Horizontal resolution: 650 lines (luminance signal)

Registration: 0.05% or less (excluding lens distortion)

Contour correction: Horizontal dual-edged, Vertical, dual-edged

Shutter speed: 1/100, 1/250, 1/500, 1/1000, 1/2000, VARIABLE

Variable scan: 60.2 Hz to 1966.7 Hz

WHITE BALANCE: 2 Auto white memories
1 Preset and full time auto white

VTR SECTION

Format: S-VHS standard

Tape speed: 33.35 mm/sec

Record/playback time: 120 min (with T-120 cassette)

Fast forward/ Rewinding time: 4 min 30 sec or less (with T-120 cassette)

Hi-Fi sound D range: More than 80 dB

Horizontal resolution: Color 400 lines or more (S-VHS mode)
Color 240 lines or more (VHS mode)

Video S/N ratio (color): 46 dB (S-VHS mode)
45 dB (VHS mode)

Audio S/N ratio: 48 dB (NR: ON)
44 dB (NR: OFF)

INPUT/OUTPUT SIGNALS

Video signal output: 1.0 Vp-p/75 ohms (BNC)

Lens: 12-pin connector

Y/C signal output: Y; 1.0 Vp-p/75 ohms,
C; 0.286 Vp-p/75 ohms (Burst), 7-pin connector

DC input: 12 V DC (11.0 to 15.0 V DC)

Genlock input: VBS 1.0 Vp-p or BB 0.43 Vp-p/75 ohms (BNC)

Microphone input: –52 dBs (6-pin), Unbalanced

Audio input: +4 dBs/10 k ohms (select switch)
–60 dBs/3 k ohms (select switch),
(XLR3), Balanced, 2 INPUT

Audio output: –6 dBs/1 k ohm (RCA), Unbalanced

Earphone output: –60 dBs to –12 dBs/8 ohms (ø3.5 mini-jack)

GENERAL

Power consumption: 25.2 W (including the lens and viewfinder)

Weight: Approx. 6 kg (13 lbs) (incl. viewfinder)

Operating temperature range: 0°C to +40°C (+32°F to +104°F)

Storage temperature range: –20°C to +60°C (–40°F to +140°F)

1.5-inch VIEWFINDER VF-P115

CRT: 1.5 inch

Resolution: 500 lines or more

Input signal: Composite 1.0 Vp-p, high impedance

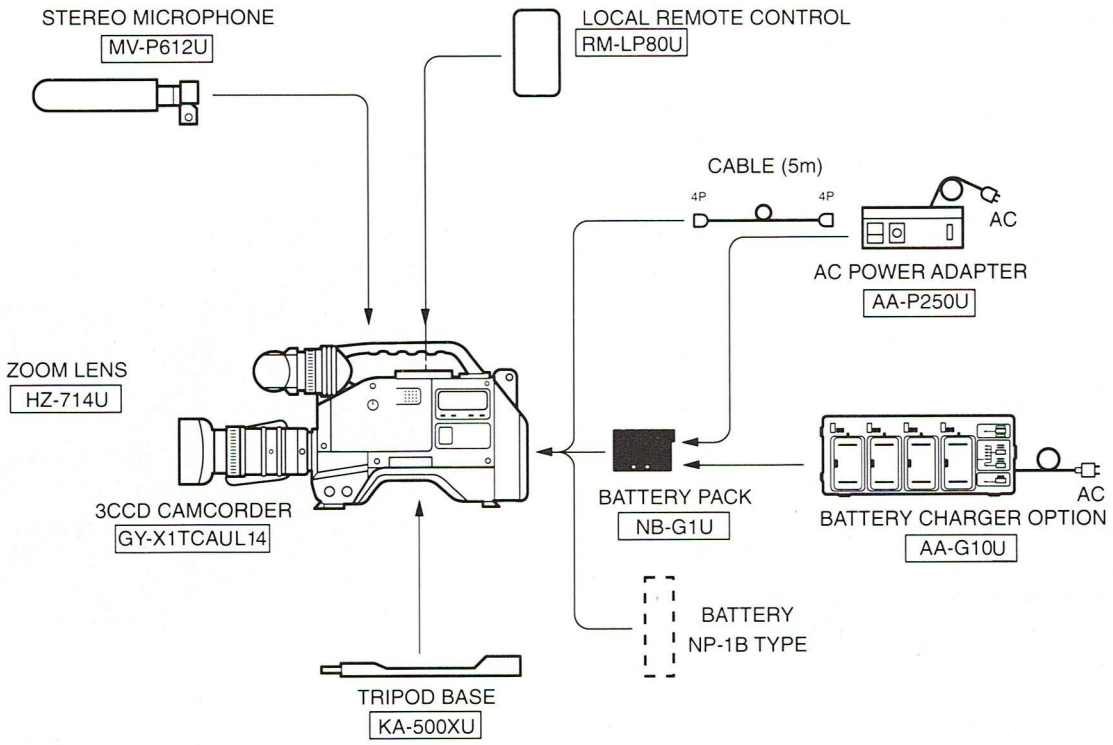
Available functions: Top tally lamp (with ON/OFF switch)
Low battery indicator (RED)
Recording indicator/tape trouble alarm (GREEN)
Contrast control
Brightness control

Diopter control: Provided

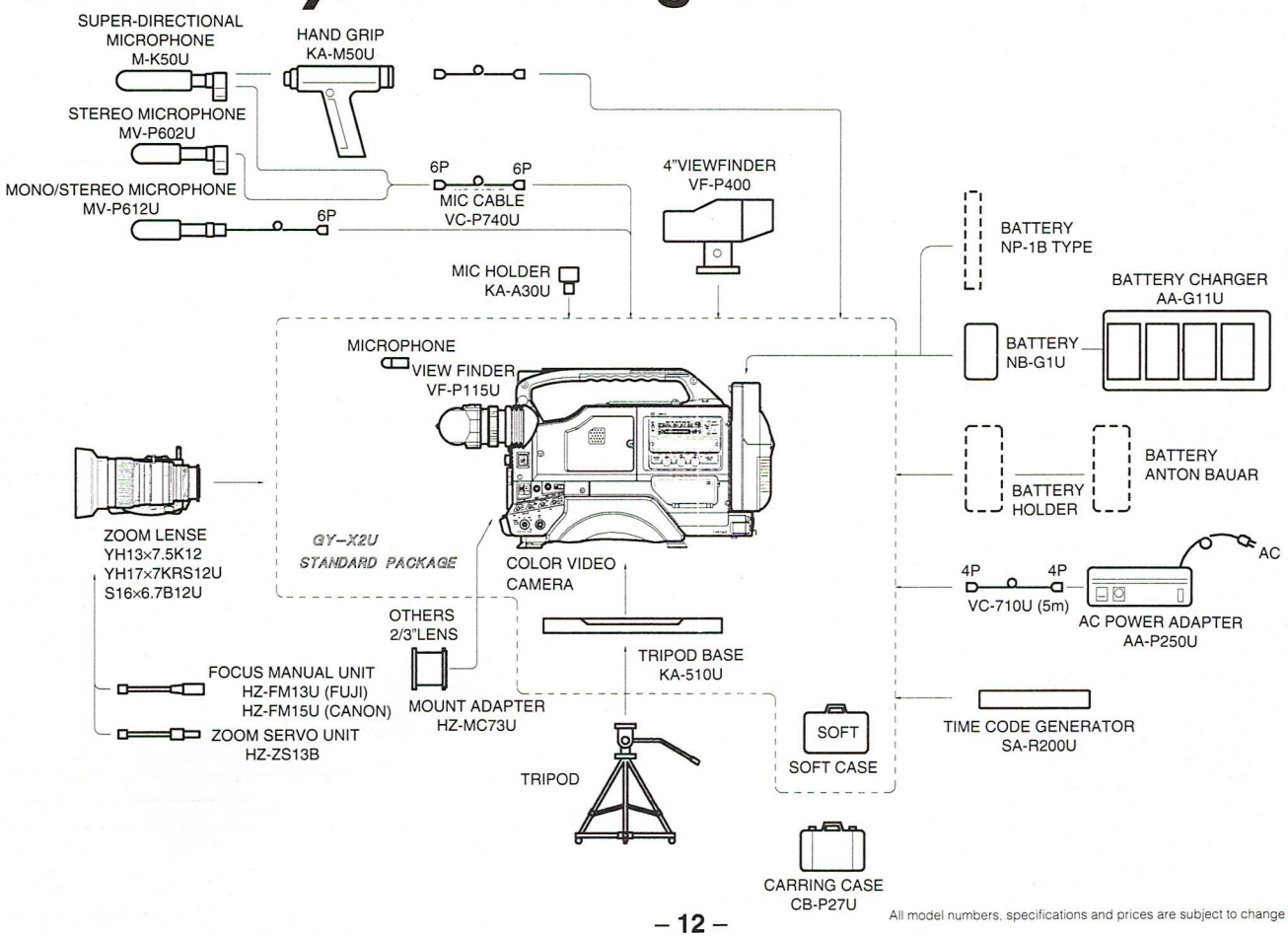
Power requirements: 12 V DC, 3W

All model numbers, specifications and prices are subject to change without notice.

GY-X1TCAUL14 System Configuration



GY-X2U System Configuration



All model numbers, specifications and prices are subject to change without notice.

PROFESSIONAL S **Dockable Recorder**

BR-S422U

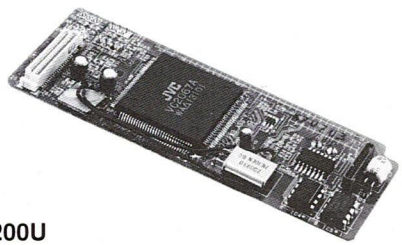
FEATURES

- **Newly-developed compact and lightweight design**
- **High-quality S-VHS pictures with resolution of more than 400 lines**
- **Quick-response recording start**
- **SMPTE standard LTC or VITC recording capability via optional time code generator SA-R200U**
- **2-channel Hi-Fi and 2-channel linear audio with Dolby B* noise reduction**
- **Built-in AEQ generator**
- **Built-in loudspeaker**
- **REC CHECK function**
- **Rotary erase heads**
- **Backlist LCD audio meter**
- **LCD display indicates time codes, control track date, and tape remaining time**
- **Heavy-duty diecast aluminum chassis**
- **LED operation indicators**
- **Battery power remaining indicator**
- **5000H hour meter (switchable from tape counter)**
- **Video/Hi-Fi audio insert editing**
- **Self-diagnostic and maintenance-oriented design**

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.

SPECIFICATIONS

GENERAL	
Format: VHS/S-VHS NTSC standard	
Power requirement: DC 12 V	
Power consumption: 13 W	
Dimensions: 287.5 (W) × 244 (H) × 131.5 (D) mm (11-3/8" × 9-5/8" × 5-3/16") (with battery holder)	
Weight: 3.2 kg (7.1 lbs), 4.2 kg (9.3 lbs) with battery and cassette	
Temperature Operating: 0°C to 40°C (32°F to 104°F) Storage: -20°C to 60°C (-4°F to 140°F)	
Operating humidity: 30% to 80 %	
Tape width: 12.65 mm	
Tape speed: 33.35 mm/sec	
Recording and Playback time: 120 min. with ST-120	
VIDEO	
Recording and Playback system: Rotary four-head helical scanning system	
Luminance: FM recording	
Color: Down converted direct recording	
Video signal system: NTSC-type color signal/NTSC-type Y/C signal	
Input (50-pin camera connector) Y: 1.0 Vp-p, 75 ohms, unbalanced C: 0.286 Vp-p (burst), 75 ohms, unbalanced	
Output Line: 1.0 Vp-p, 75 ohms, unbalanced Y/C: Y: 1.0 Vp-p, 75 ohms, unbalanced C: 0.286 Vp-p (burst), 75 ohms, unbalanced	
Signal-to-noise ratio:	46 dB (S-VHS) 45 dB (VHS)
Horizontal resolution: 240 lines (VHS)	400 lines (S-VHS)
AUDIO	
Number of tracks: 4 (Hi-Fi: 2/Normal: 2)	
Input Line: -60 dBs, 3 k-ohms, balanced Mic: +4 dBs, 10 k-ohms, balanced/–60 dBs, 3k-ohms, balanced	
Output Line: -6 dBs, low impedance, unbalanced (Hi-Fi/Normal) Earphone: –60 to –12 dBs, 8 ohms Speaker: 0.5 W, 8 ohms	
Dynamic range: More than 80 dB (Hi-Fi)	
Frequency response:	20 to 20,000 Hz (Hi-Fi) 50 to 12,000 Hz (Normal)
Signal-to-noise ratio: 44 dB (NR-off, Normal at 3% distortion)	
Wow & flutter:	Less than 0.007 % WRMS (Hi-Fi) Less than 0.15 % WRMS (Normal)
ACCESSORIES	
Provided accessories: Camera handle × 1	



SA-R200U
Time Code Generator

All model numbers, specifications and prices are subject to change without notice.

S-VHS Portable Recorder

BR-S405U

FEATURES

- JVC's advanced S-VHS picture quality with resolution of more than 400 lines
- Built-in chroma noise reduction
- Twin impedance rollers to reduce jitter
- Twin rotary erase heads and AEF (Automatic Editing Function)
- Hi-Fi stereo sound and two channel normal audio with *Dolby noise reducer
- Balanced XLR audio input connectors
- Balanced XLR audio in/out connectors
- Audio preset switch for quick recording
- Audio dubbing capability
- LCD lap timer with 10-hour memory backup
- Mode lock function
- 2000 H hour meter
- 14-pin camera connector

* Y/C filtering technique incorporated under license from FAROUDJA Laboratories Inc.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

SPECIFICATIONS

Format: VHS/S-VHS standard
Recording system: Luminance: FM recording Color: Down-converted subcarrier/ Separate Y/C signals
Signal system: NTSC
Tape speed: 33.35 mm/sec
Record/play time: 120 minutes (with T-120/ST-120 cassette)
FF/REW time: Within 4 minutes (with T-120 cassette)
Power source: 12V DC
Power consumption: 19W
Dimensions: 280 (W) × 112.5 (H) × 324 (D)mm (11-1/16" × 4-7/16" × 12-13/16")
Weight: 4.3 kg (9.5 lbs.) (5.2 kg (11.5 lbs.) with NB-G1U and tape)
Operating temperature: 0°C to 40°C
Storage temperature: – 20°C to 60°C

Video
Input: 0.5 to 2.0 Vp-p, 75 ohms, unbalanced
Output: 1.0 Vp-p, 75 ohms, unbalaced
Y/C input: Y: 1.0 Vp-p, 75 ohms, unbalanced C: 0.286 Vp-p, 75 ohms, unbalanced (Burst)
Y/C output: Y: 1.0 Vp-p, 75 ohms, unbalanced C: 0.286 Vp-p, 75 ohms, unbalanced (Burst)
Horizontal resolution: More than 240 lines (VHS color) More than 400 lines (S-VHS color)
S/N ratio: 46 dB (S-VHS) 45 dB (VHS) (Detail SW OFF) (Rohde and Schwarz noise meter)

Audio
Number of tracks: 2 Hi-Fi tracks and 2 normal tracks
Input: – 60 dBs (3 k-ohms)/-20/+4 dBs (10 k-ohms), balanced (Hi-Fi and normal)
Output: – 6 dBs, 1 k-ohm, unbalanced (Hi-Fi and normal)
Headphone output: – 45 to – 25 dBs, 8 ohms
Hi-Fi audio
Frequency response: 20 Hz – 20,000 Hz
Dynamic range: More than 80 dB
Wow & flutter: Within 0.007% WRMS
Normal audio
Frequency response: 40 Hz – 12,000 Hz
S/N ratio: More than 44 dB
Wow & flutter: Within 0.25% RMS
Accessories: Carrying handle × 1, Shoulder strap × 1, NB-G1U × 1

All model numbers, specifications and prices are subject to change without notice

S-VHS-C Dockable Recorder

BR-S420CU

FEATURES

- The first professional S-VHS-C dockable recorder
- High quality S-VHS pictures* with resolution of more than 400 lines
- Direct docking with JVC's KY-17BU/KY-17FITU/KY25U/ KY-27U 3-CCD cameras
- World's smallest and light weight at just over 4-3/16 lbs with heavy-duty diecast aluminum body
- Twenty minutes of broadcast quality recording is possible with a single ST-C20PRO
- VITC recording capability with an optional time code generator (SA-R100U)
- Standard 62 mm head drum with two video heads, two FM-audio heads and two rotary erase heads
- New AEF (Automatic Editing Function) for clean assemble edits
- Balanced XLR audio input connectors

Picture shows BR-S420CU with optional KY-17BU Camera System

* Y/C filtering technique incorporated under license from FAROUDJA Laboratories Inc.

SPECIFICATIONS

GENERAL

Format: VHS-C/S-VHS-C standard

Tape width: 12.65 mm (1/2 inch)

Tape speed: 33.35 mm/sec

Recording & Playback time: 20 min. with ST-C20

Operating temperature: 0°C to 40°C (32°F to 104°F)

Storage temperature: – 20°C to 60°C (– 4°F to 140°F)

Operating humidity: 30% to 80%

Power consumption: 12W

Power requirement: 12V DC

Dimensions: 122 mm (W) × 220 mm (H) × 178 mm (D) (4-13/16" × 8-11/16" × 7-1/16")

Weight: 1.9 kg (Recorder only) (4.2 lbs)

VIDEO

Recording/Playback system: Rotary four-head, helical scanning system
Luminance: FM recording
Color: Down-converted direct recording

Video signal system: NTSC-type color signal/NTSC-type Y/C signal

Input (50-pin Camera Connector):
Y: 1.0 Vp-p, 75 ohms, unbalanced
C: 0.286 Vp-p (burst), 75 ohms, unbalanced

Output
Line video: 1.0 Vp-p, 75 ohms, unbalanced
Y/C: Y: 1.0 Vp-p, 75 ohms, unbalanced
C: 0.286 Vp-p (burst), 75 ohms, unbalanced

Signal-to-noise ratio: S-VHS: 43 dB(46 dB: when recorded tape is played back on BR-S811U)
VHS: 42 dB (45 dB: when recorded tape is played back on BR-S811U)

Horizontal resolution: 400 lines (S-VHS)

AUDIO

Number of tracks: 3 (Hi-Fi: 2/Normal: 1)

Input level
(50-pin connector): – 20 dBs, 10 k-ohms, balanced
(line): – 70/– 60 dBs, 3 k-ohms, balanced
+4 dBs, 10 k-ohms, balanced (Normal, Hi-Fi)

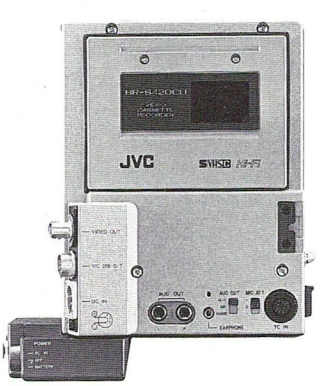
Output level
(line):– 6 dBs, low impedance, unbalanced (Normal, Hi-Fi)
(earphone): – 30 to – 12 dBs, 8 ohms
(speaker): 0.5W, 8 ohms

Hi-Fi Audio
Dynamic range: 80 dB
Frequency response: 20 to 20,000 Hz
Wow and flutter: Less than 0.008% WRMS

Normal Audio
Signal-to-noise ratio: 40 dB
Frequency response: 100 to 10,000 Hz
Wow and flutter: Less than 0.2% WRMS

ACCESSORIES

Camera handle × 1
Battery pack (NB-G1U) × 1
Battery holder (SA-S10U) × 1
Cassette adapter (SA-CP11U) × 1
Cap × 2

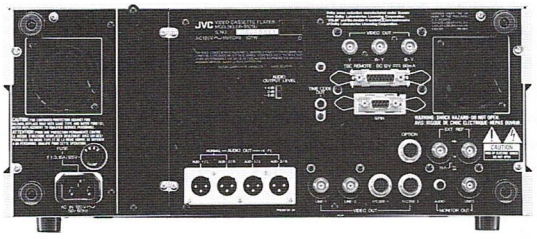


All model numbers, specifications and prices are subject to change without notice.

BR-S525U

FEATURES

- High-quality variable-speed playback and programmable playback
- Field by field playback
- Build-in TBC DNR with component signal output
- High-quality pictures
- Full-size/compact compatible cassette loading mechanism
- Menu display and on-screen mode check
- RS-422 9-pin serial remote
- Optional plug-in time code reader (LTC/VITC)
- Hi-Fi stereo system with a dynamic range of more than 90dB
- Two-channel normal audio with switchable Dolby B noise reduction
- Independent audio output level controls for all four channels
- XLR balanced audio connectors
- 2 level meters switchable between Hi-Fi and Normal audio
- 8-digit time counter for tape position indication in either TC or CTL mode
- jog/shuttle dials
- High-speed visual search at up to 32x (10x with C-size cassettes)
- External sync input for reference video
- Y-Frequency Response Control
- Automatic H-phase lock
- Wide-format (16:9) playback capability
- Tiltable control panel
- Heavy-duty mechanism
- Self-diagnostic warning system
- Front-access test points
- Automatic head cleaning mechanism
- Headphone jack with adjustable level output
- 19 inch EIA rack mount capability



* Dolby and the Double-D symbol are trademarks of Dolby Laboratories Licensing Corporation

SPECIFICATIONS

GENERAL

Format: VHS/S-VHS NTSC standard

Power requirement: AC 120 V 50/60 Hz

Dimensions: 42.9 (W) × 18.8 (H) × 56.5 (D) cm
(16-3/4" × 7-1/2' × 22-1/4")

Weight: 23kg

Operating temperature:
5°C to 40°C (41°F to 104°F)

Storage temperature:
-20°C to 69°C (-4°F to 140°F)

Tape speed: 33.35 mm/sec

Playback time: Max. 120 min. with JVC T-120

Fast forward/Rewind time:
Less than 2.5 min for 120 min. tape

Search speed: Dial search FWD/REW
X±1/30 to X±32

Variable playback speed: FWD X+1/30 to X+3
REW X-1/30 to X-2

VIDEO

Playback: Rotary two-head, helical scanning
Luminance: FM recording

Color signal: Phase shift, converted sub-carrier direct recording

Video signal system: NTSC-type color signal/NTSC-type Y/C signal

Output
Line: 1.0 Yp-p, 15 ohms, unbalanced YC358
Y: 1.0 Vp-p, 75 ohms, unbalanced
C: 0.286 Vp-p, 75 ohms, unbalanced (Burst)
Signal-to-noise ratio: More than 47 dB (S-VHS) More than 46 dB (VHS)

Horizontal resolution: More than 400 lines (S-VHS) More than 240 lines (VHS)

Reference video input: 1.0 Vp-p 75 ohms, unbalanced (with one loop-through TBC ON)

AUDIO

Output
Line: -6/0/+4 dBs, low impedance, balanced (Hi-Fi/Normal)
Monitor: -6 dBs, low impedance, unbalanced
Phones: ∞ to -17 dBs, 8 ohms

Signal-to-noise ratio: More than 44 dB (NR-off) (Normal)

Dynamic range: More than 90 dB (Hi-Fi)

Frequency response: 20 to 20,000 Hz (Hi-Fi)
40 to 12,000 Hz (Normal)

Wow and flutter: less than 0.005% WRMS (Hi-Fi)
Less than 0.25% rms (Normal)

Time code
Output: 0 dB ± 3 dBs, low impedance

CONNECTORS

Video
Line output: BNC-type connectors
YC358 output: 7-pin connectors
Monitor: BNC type connector

Audio
Hi-Fi output: XLR connectors
Normal output: XLR connectors

Remote control: 9-pin connector

Accessories: Power Cord

All model numbers, specifications and prices are subject to change without notice.

PROFESSIONAL S **Video Cassette Recorder**

BR-S622U

S-VHS S-VHS C

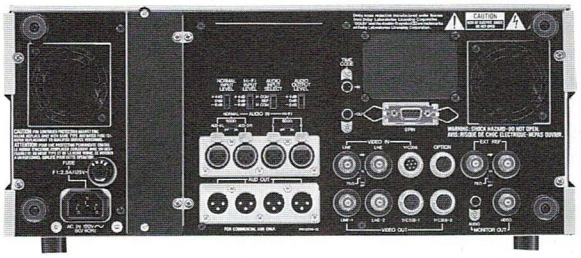
FEATURES

- **Full-size/compact-compatible cassette loading mechanism**
- **Open-ended system architecture with plug-in TC and TBC capability**
- **High-quality pictures*: chroma enhancer, digital Y/C separator, digital luminance comb filter, and digital DOC**
- **Menu Display and On-Screen Mode Check**
- **Hi-Fi Stereo system with a dynamic range of more than 90 dB**
- **Two-channel normal audio with switchable Dolby B* noise reduction**
- **Independent audio level controls for all four channels**
- **XLR balanced audio connectors**
- **2 level meters switchable between Hi-Fi and Normal audio**
- **8-Digital time counter for indication of editing data in either TC or CTL**
- **Reference video input with bridge-out**
- **Y-Frequency Response Control**
- **Tiltable control panel**
- **Heavy-duty mechanism**
- **Self-diagnostic warning system**
- **Front-access test points**
- **Automatic head cleaning mechanism**
- **9999-hour meter switchable from tape counter**
- **Framing servo on/off switch**
- **Headphone jack with adjustable level output**
- **19-inch EIA rack mount capability**

* A Y/C filtering technique incorporated under license from FAROUDJA Laboratories Inc.

* Employs chroma-enhancing technology co-developed by JVC and FAROUDJA Laboratories and modified for S-VHS applications.

* Dolby noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation. Dolby and the Double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.



(BR-S622U Rear)

SPECIFICATIONS

GENERAL
Format: VHS/S-VHS NTSC standard
Power requirement: AC 120 V ~, 50/60 Hz
Power consumption: 92 watts
Dimensions: 42.9(W) x 18.8(H) x 56.5(D) cm (16-3/4" x 7-1/2" x 22-1/4")
Weight: 23 kg (45 lbs)
Operating temperature: 5°C to 40°C (41°F to 104°F)
Storage temperature: -20°C to 60°C (-4°F to 140°F)
Tape speed: 33.35 mm/sec
Recording & Playback time: Max. 120 min. with JVC T-120
Fast forward/Rewind time: Less than 2.5 min. for 120 min. tape
Search speed: Dial Search FWD/REW x ±1/30 to x ±32

VIDEO
Recording and playback: Rotary two-head, helical scanning system Luminance: FM recording Color signal: Phase shift, converted sub-carrier direct recording
Video signal system: NTSC-type color signal/ NTSC-type Y/C signal
Input Line: 1.0 Vp-p, 75 ohms, unbalanced YC358Y : 1.0 Vp-p, 75 ohms, unbalanced C: 0.286 Vp-p, 75 ohms, unbalanced (Burst)
Output Line: 1.0 Vp-p, 75 ohms, unbalanced YC358Y: 1.0 Vp-p, 75 ohms, unbalanced C: 0.286 Vp-p, 75 ohms, unbalanced (Burst)
Signal-to-noise ratio: More than 47 dB (S-VHS) More than 46 dB (VHS)
Horizontal resolution: More than 400 lines (S-VHS) More than 240 lines (VHS)
Reference video input: 1.0 Vp-p, 75 ohms, unbalanced (with one loop-through, with the SA-T22U)
EXT. SYNC input: 0.5 to 4.0 Vp-p, 75 ohms, unbalanced (with one loop-through, without the SA-T22U)

AUDIO
Input Line: -6/0/+4 dBs, 10 k-ohms/600 ohms, balanced (Hi-Fi/Normal) Mic: -67 dBs, 10 k-ohms, unbalanced
Output Line: -6/0+4 dBs, Low impedance, balanced (Hi-Fi/Normal) Monitor: -6 dBs, low impedance, unbalanced Phones: ∞ to -17 dBs, 8 ohms
Signal-to noise ratio: More than 44 dB (NR-off) (Normal)
Dynamic range: More than 90 dB (Hi-Fi)
Frequency response: 20 to 20,000 Hz (Hi-Fi) 40 to 12,000 Hz (Normal)
Wow and flutter: Less than 0.005% WRMS (Hi-Fi) Less than 0.25% RMS (Normal)
Time code Input: 0 dB ±6 dBs, 10 k-ohms Output: 0 dB +3 dBs, Low impedance

CONNECTORS
Video Line input: BNC-type connector Line output: BNC-type connectors YC358 input/output: 7-pin connectors Monitor: BNC-type connector
Audio Hi-Fi input/output: XLR connectors Normal input/output: XLR connectors Monitor output: RCA type pin connector
Remote control: 9-pin connector
Accessories: Power Cord

SA-K63UB

All model numbers, specifications and prices are subject to change without notice.

PROFESSIONAL S **Editing Video Cassette Recorder**

BR-S822U

S-VHS S-VHS C

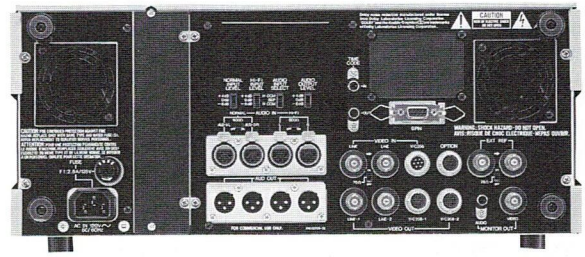
FEATURES

- **Full-size/compact-compatible cassette loading mechanism**
- **Open-ended system architecture with plug-in TC and TBC capability**
- **High-quality pictures*: chroma enhancer, digital Y/C separator, digital luminance comb filter, and digital DOC**
- **Fully-equipped for high-performance professional editing**
- **Menu Display and On-Screen Mode Check**
- **Hi-Fi Stereo system with a dynamic range of more than 90 dB**
- **Two-channel normal audio with switchable Dolby B* noise reduction**
- **Independent audio level controls for all four channels**
- **XLR balanced audio connectors**
- **2 level meters switchable between Hi-Fi and Normal audio**
- **8-Digital time counter for indication of editing data in either TC or CTL**
- **Reference video input with through-out**
- **Y-Frequency Response Control**
- **Tiltable control panel**
- **Heavy-duty mechanism**
- **Self-diagnostic warning system**
- **Front-access test points**
- **Automatic head cleaning mechanism**
- **9999-hour meter switchable from tape counter**
- **Framing servo on/off switch**
- **Headphone jack with adjustable level output**
- **19-inch EIA rack mount capability**

* A Y/C filtering technique incorporated under license from FAROUDJA Laboratories Inc.

* Employs chroma-enhancing technology co-developed by JVC and FAROUDJA Laboratories and modified for S-VHS applications.

* Dolby noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation. Dolby and the Double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.



(BR-S822U Rear)

SPECIFICATIONS

GENERAL
Format: VHS/S-VHS NTSC standard
Power requirement: AC 120 V ~, 50/60 Hz
Power consumption: 92 watts
Dimensions: 42.9(W) x 18.8(H) x 56.5(D) cm (16-3/4" x 7-1/2" x 22-1/4")
Weight: 23 kg (45 lbs)
Operating temperature: 5°C to 40°C (41°F to 104°F)
Storage temperature: -20°C to 60°C (-4°F to 140°F)
Tape speed: 33.35 mm/sec
Recording & Playback time: Max. 120 min. with JVC T-120
Fast forward/Rewind time: Less than 2.5 min. for 120 min. tape
Search speed: Dial Search FWD/REW x ±1/30 to x ±32

VIDEO
Recording and playback: Rotary two-head, helical scanning system Luminance: FM recording Color signal: Phase shift, converted sub-carrier direct recording
Video signal system: NTSC-type color signal/ NTSC-type Y/C signal

Input Line: 1.0 Vp-p, 75 ohms, unbalanced YC358 Y: 0 Vp-p, 75 ohms, unbalanced C: 0.286 Vp-p, 75 ohms, unbalanced (Burst)
Output Line: 1.0 Vp-p, 75 ohms, unbalanced YC358 Y: 1.0 Vp-p, 75 ohms, unbalanced C: 0.286 Vp-p, 75 ohms, unbalanced (Burst)
Signal-to-noise ratio: More than 47 dB (S-VHS) More than 46 dB (VHS)
Horizontal resolution: More than 400 lines (S-VHS) More than 240 lines (VHS)
Reference video input: 1.0 Vp-p, 75 ohms, unbalanced (with one loop-through, with the SA-T22U)
EXT. SYNC input: 0.5 to 4.0 Vp-p, 75 ohms, unbalanced (with one loop-through, without the SA-T22U)

AUDIO
Input Line: -6/0/+4 dBs, 10 k-ohms/600 ohms, balanced (Hi-Fi/Normal) Mic: -67 dBs, 10 k-ohms, unbalanced
Output Line: -6/0+4 dBs, Low impedance, balanced (Hi-Fi/Normal) Monitor: -6 dBs, low impedance, unbalanced Phones: ∞ to -17 dBs, 8 ohms

Signal-to-noise ratio: More than 44 dB (NR-off) (Normal)
Dynamic range: More than 90 dB (Hi-Fi)
Frequency response: 20 to 20,000 Hz (Hi-Fi) 40 to 12,000 Hz (Normal)
Wow and flutter: Less than 0.005% WRMS (Hi-Fi) Less than 0.25% RMS (Normal)
Time code Input: 0 dB ±6 dBs, 10 k-ohms Output: 0 dB +3 dBs, Low impedance

CONNECTORS
Video Line input: BNC-type connector Line output: BNC-type connectors YC358 input/output: 7-pin connectors Monitor: BNC-type connector
Audio Hi-Fi input/output: XLR connectors Normal input/output: XLR connectors Monitor output: RCA type pin connector
Remote control: 9-pin connector
Accessories: 7-pin cable, Power Cord

All model numbers, specifications and prices are subject to change without notice.

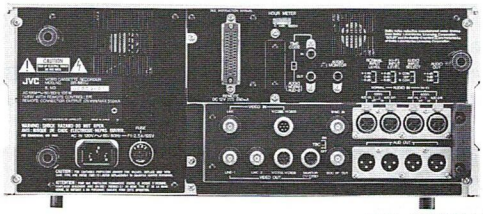
BR-S611U/BR-S811U

S-VHS

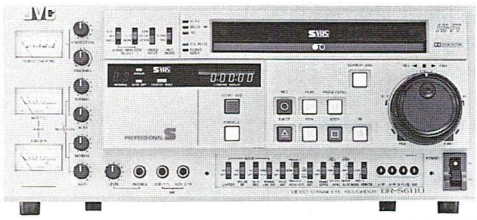
FEATURES

■ High picture quality: Chroma enhancement, improved crosstalk cancellation circuitry, improved luminance signal frequency response, and improved picture stability with TS (Tape Stabilizing) Head Drum ■ S-VHS recording and playback Circuitry featuring a 3-line Logical Comb Filter* and a horizontal resolution of more than 400 lines ■ Professional-quality* editing functions (BR-S811U only) ■ Separate Y/C input/output connectors ■ Hi-Fi VHS stereo sound with a dynamic range of more than 90 dB and extended frequency response of 20 Hz to 20 kHz ■ Dolby* noise reduction on the normal audio track ■ Audio dubbing possible on the normal audio channel 2 soundtrack (BR-S611U only) ■ Professional-standard XLR balanced audio connectors: Input and output levels selectable from +4 dB, 0 dB and – 6 dB ■ Manual audio/video level meters and controls ■ SMPTE time code recording and playback capability ■ Variable-speed dial search and jog control ■ Large, illuminated function buttons ■ Easy-to-see LED indicators ■ Half-loading mechanism ■ Full repeat and counter memory ■ Timer recording and playback with external timer (BS-S611U only) ■ Heavy-duty mechanism ■ Self-diagnostic warning system ■ Front panel test points ■ Automatic head cleaning ■ Hour meter ■ 45-pin remote connector ■ External sync input and RF output for DOC (Dropout Compensator) ■ Framing servo on/off switch ■ Headphone jack with adjustable output level ■ Two VIDEO LINE OUT connectors and one separate Y/C MONITOR connector ■ 19" EIA rack mounting possible

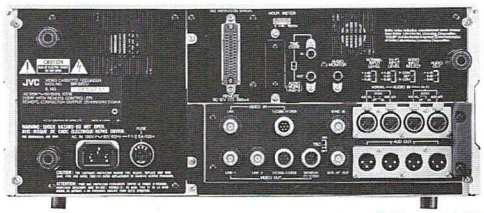
BR-S811U



BR-S811U(REAR)



BR-S611U



BR-S611U(REAR)

* Dolby noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
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* Y/C filtering technique incorporated under license from FAROUDJA Laboratories Inc.

* Employs chroma-enhancing technology co-developed by JVC and FAROUDJA Laboratories and modified for S-VHS applications

SPECIFICATIONS

GENERAL

Format: VHS/S-VHS NTSC standard

Power requirement: AC 120V, 50/60 Hz

Power consumption: 115 watts (max. 125 watts with the Automatic Editing Control Unit, DC 12V, 550 mA)

Dimensions: 42.9 (W) × 18.8 (H) × 53.1 (D) cm (16-3/4" × 7-1/2" × 20-15/16")

Weight: 24.5 kg (55 lbs)

Operating temperature: 5°C to 40°C (41°F to 104°F)

Storage temperture: – 20°C to 60°C (– 4°F to 140°F)

Tape speed: 33.35 mm/sec

Recording & Playback time: Max. 120 min. with JVC ST-120

Fast forward/Rewing time: Less than 4 min. for 120 min. tape

Search speed: Dial Search FWD/REW × ±1/30 to × ±10

VIDEO

Recording and playback: Rotary two-head, helical scanning system
Luminance: FM redording
Color signal: Phase shift, converted sub-carrier direct recording

Video signal system: NTSC-type color signal/ NTSC-type Y/C signal

Input
Line: 1.0 Vp-p, 75 ohms, unbalanced
YC629 Y: 1.0 Vp-p, 75 ohms, unbalanced
C: 0.9 Vp-p, 75 ohms, unbalanced
YC358 Y: 1.0 Vp-p, 75 ohms, unbalanced
C: 0.286 Vp-p, 75 ohms, unbalanced (Burst)

Output
Line: 1.0 Vp-p, 75 ohms, unbalanced
YC629 Y: 1.0 Vp-p, 75 ohms, unbalanced
C: 0.9 Vp-p, 75 ohms, unbalanced
YC358 Y: 1.0 Vp-p, 75 ohms, unbalanced
C: 0.286 Vp-p, 75 ohms, unbalanced (Burst)

Signal-to noise ratio: More than 46 dB (S-VHS)

Horizontal resolution: More than 400 lines (S-VHS)
More than 240 lines (VHS)

External SYNC input: 0.5 to 4.0 Vp-p, 75 ohms, unbalanced

RF output (DOC): 0.5 Vp-p, 75 ohms, unbalanced

AUDIO

Input
Line: – 6/0/+4 dBs, 10 k-ohms/600 ohms, balanced (Hi-Fi/Normal)

Output
Line: – 6/0/+4 dBs, Low impedance, balanced (Hi-Fi/Normal)

Signal-to-noise ratio: More than 44 dB (NR-off) (Normal)

Dynamic range: More than 90 dB (Hi-Fi)

Frequency response: 20 to 20,000 Hz (Hi-Fi)
40 to 12,000 Hz (Normal)

Wow and flutter: Less than 0.005% WRMS (Hi-Fi)
Less than 0.25% rms (Normal)

Time code
Input: 0 dB ±6 dBs, 10 k-ohms
Outupt: 0 dB ±3 dBs, Low impedance

CONNECTORS

Video
Line input: BNC-type connector
Line output: BNC-type connectors
YC358/YC629 input/output: 7-pin connectors

Audio
Hi-Fi input/output: XLR connectors
Normal input/output: XLR connectors
Audio monitor: RCA Type Pin connector

Micro phones: 6 mm Jacks
Head phones: 6 mm Jacks
Remote control: 45-pin connector

Accessories: 7-pin cable, Power Cord, Switch cover

All model numbers, specifications and prices are subject to change without notice.

S-VHS Player/Recorder

BR-S605UB

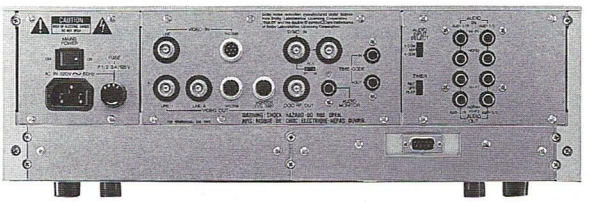
FEATURES

- **Two external PWB slots with optional boards for system customization (The SA-K27U 9-pin RS-232C serial remote control board, SA-K18U 45-pin parallel remote control board)**
- **S-VHS high picture quality* with advanced chroma enhancer**
- **Hi-Fi VHS sound with dynamic range of 85 dB**
- **Dolby* B noise reduction for normal audio**
- **External sync capability**
- **Dial search for fast, pinpoint location of scenes or edit points**
- **Frame shift**
- **Mode lock for operation**
- **Auto tracking for trouble-free playback**
- **Wired remote control capability**
- **19" Rack mount capability**
- **With the SA-K27U, video insert editing is possible**
- **With the SA-K27U, CTL timecode recording/playback is possible**

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

* Y/C filtering technique incorporated under license from FAROUDJA Laboratories Inc.

* Employs chroma-enhancing technology co-developed by JVC and FAROUDJA Laboratories and modified for S-VHS applications



(Picture shows BR-S605UB with optional SA-K-27U RS-232C board)

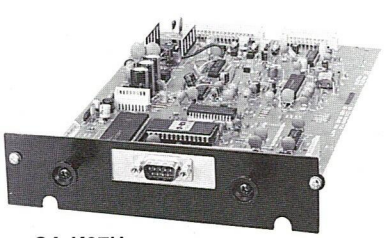
SPECIFICATIONS

GENERAL
Format: VHS/S-VHS standard
Tape width: 12.65 mm (1/2")
Tape speed: 33.35 mm/sec
Recording/Playback time: 120 min. with T-120/ST-120
Operating temperature: 5°C to 40°C (41°F to 104°F)
Storage temperature: –20°C to 60°C (–4°F to 140°F)
Power requirement: AC 120V ~, 60 Hz
Power consumption: 60W
Dimensions: 429 mm (W) × 144 mm (H) × 447 mm (D) (16-7/8" × 5-11/16" × 18-3 4")
Weight: 14 kg (31 lbs)±32

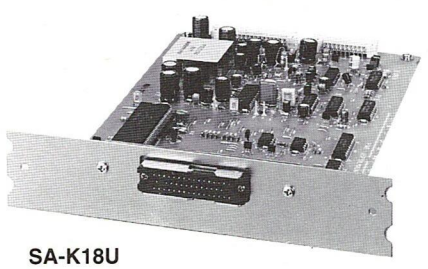
VIDEO
Recording/Playback system: Rotary four–head.
Helical scanning system
Luminance: FM recording
Color: Down-converted direct recording
Video signal system: NTSC-type color signal/ NTSC-type Y/C signal
Input:
Line video: 0.5 – 2.0 Vp-p, 75 ohms, unbalanced
Y/C: Y: 0.5 – 2.0 Vp-p, 75 ohms, unbalanced
C: 0.286 Vp-p (burst), 75 ohms, unbalanced
Output:
Line video: 1.0 Vp-p, 75 ohms, unbalanced
Y/C: Y: 1.0 Vp-p, 75 ohms, unbalanced
C: 0.286 Vp-p (burst), 75 ohms, unbalanced
Signal-to-noise ratio: 46 dB (S-VHS/SP)
Horizontal resolution: 400 lines (S-VHS), 240 lines (VHS)

AUDIO
Input line: – 6 dBs, 10k-ohms, unbalanced
Output level (line): – 6 dBs, 1k-ohm, unbalanced (Normal, Hi-Fi)
Signal-to-noise ratio: 40 dB (NR-off) (Normal)
Dynamic range: 85 dB (Hi-Fi)
Frequency response: 50 to 12,000 Hz (Normal) 20 to 20,000 Hz (Hi-Fi)
Wow and flutter: less than 0.005% WRMS (Hi-Fi)
Accessories AC powercord

Optional Accessories



SA-K27U
RS-232C Remote Board



SA-K18U
45-pin Remote Board

All model numbers, specifications and prices are subject to change without notice.

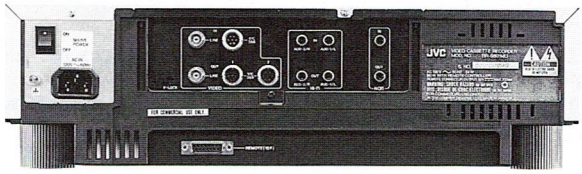
S-VHS Hi-Fi Video Cassette Recorder

BR-S601MU

FEATURES

- S-VHS recording and playback
- High picture quality with more than 400 lines of horizontal resolution
- High-performance digital frame memory
- Conforms to the medical UL safety standard
- Hi-Fi stereo sound with a dynamic range of more than 85 dB
- Rotary erase head
- Multiple search functions including still, frame advance and shuttle search, and VHS Index Search System with MARK/ERASE facilities
- Wired remote control (Option: RM-G61U)
- Counter backup function
- Output flexbility: two separate Y/C outputs and a composite output

* Y/C filtering technique incorporated under license from FAROUDJA Laboratories Inc.



SPECIFICATIONS

GENERAL

Format: VHS/S-VHS standard

Power requirement: AC 120V ~, 60Hz

Power consumption: 60 watts

Dimensions: 43.5 (W) × 12.4 (H) × 38.0 (D) cm (Excluding protrusions)

Weight: 10.0 kg

Operating temperature: 5°C to 40°C

Storage temperature: – 20°C to 60°C

Tape speed: 33.35 mm/sec (SP)

Recording & Playback time: 120 mim. with JVC ST-120 or T-120

Fast forward/Rewind time: 4.0 min. for 120 min. tape

VIDEO

Recording and playback system:
Rotary four-head, helical scanning system
Luminance: FM recording
Color signal: Down converted direct recording

Video signal system: NTSC-type color signal/NTSC-type Y/C signal

Input
Line: 0.5 to 2.0 Vp-p, 75 ohms, unbalanced
YC358: Y: 0.8 – 1.2 Vp-p, 75 ohms, unbalanced
C: 0.2 – 0.4 Vp-p, 75 ohms, unbalanced (Burst)

Output
Line: 1.0 Vp-p, 75 ohms, unbalanced
YC358: Y: 1.0 Vp-p, 75 ohms, unbalanced
C: 0.28 Vp-p, 75 ohms, unbalanced (Burst)

Signal-to-noise ratio: 45 dB

Horizontal resolution: 400 lines (S-VHS)
230 lines (VHS)

AUDIO

Input
Line: – 8 dBs, 50 k-ohms, unbalanced (Hi-Fi/Normal)
Mic: – 67 dB, high impedance, unbalanced

Output
Line: – 6 dBs, 1 k-ohms, unbalanced (Hi-Fi/Normal)

Signal-to-noise ratio: 40 dB (Normal)

Dynamic range: 85 dB (Hi-Fi)

Frequency response: 70 to 10,000 Hz (Normal)
20 to 20,000 Hz (Hi-Fi)

Wow and flutter: Less than 0.3% WRMS (Normal)
Less than 0.005% WRMS (Hi-Fi)

Accessories: Power cord, Remote control unit (w/battery), Switch cover

All model numbers, specifications and prices are subject to change without notice.

S-VHS Player/Recorder

BR-S378U

FEATURES

- **New picture-improvement technologies*: Hadamard Video Noise Reduction, digital comb filter, digital chroma enhancer**
- **New sound-improvement technologies: digital AI processing technology with an 8-bit microprocessor**
- **High-quality still and slow-motion pictures**
- **Tape access functions: a quick-response full-loading mechanism**
- **Editing function: glich-free edits, a preroll function, audio dubbing on the linear track, assemble and insert editing, VOS editing dubbing mode, retake function EE monitor function**
- **Special effects: hard-edged drama of black and white, sepia tones, monotones, adjust color levels by 70%, correct white balance by 40IRE**
- **Systems flexibility: two sets of rear-panel Y/C input/output, two sets of audio L/R input/output, two sets of BNC composite video input/output, REMOTE PAUSE IN/OUT, full set of front panel inputs including Y/C, RCA video, audio L/R, and PAUSE IN connectors.**
- **Manual audio level controls**
- **Automatic head cleaner**
- **Digital AV tracking**
- **High-speed erase at 11 times normal speed**
- **Auto-reset real-time tape counter**
- **On-screen mode display**
- **Automatic repeat playback**
- **Automatic functions including Next-Function Memory**
- **REMOTE PAUSE IN/OUT,**

* A Y/C filtering technique incorporated under license from FAROUDJA Laboratories Inc.

* Employs chroma-enhancing technology co-developed by JVC and FAROUDJA Laboratories and modified for S-VHS applications.

SPECIFICATIONS

GENERAL
Power requirement: AC 120 V ~, 60 Hz
Power consumption: 40 W
Temperature Operating: 5°C to 40°C (41°F to 104°F) Storage: -20°C to 60°C (-4°F to 140°F)
Humidity Operating: 35% to 80% Storage: 5% to 80%
Operating position: Horizontal only
Dimensions (WxHxD): 435 x 127 x 392 mm (17-3/16" x 5" x 16-5/8")
Weight: 8.6 kg (19.0 lbs)
Format: VHS/S-VHS standard
Tape width: 12.65 mm
Tape speed (SP): 33.35 mm/sec (1-5/16 ips) (EP): 11.12 mm/sec (7/16 ips)
Maximum recording time (SP): 120 min. with T-120/ST-120 video cassette (EP): 360 min. with T-120/ST-120 video cassette
VIDEO
Signal system: NTSC-type color signal/NTSC-type Y/C signal
Recording system: Rotary two-head helical scan system Luminance: FM recording Color: Down-converted direct recording
Input Line: 0.5 to 2.0 Vp-p, 75 ohms, unbalanced Y/C: Y: 0.8 to 1.2 Vp-p, 75 ohms, unbalanced C: 0.2 to 0.4 Vp-p, 75 ohms, unbalanced
Output Line: 1.0 Vp-p, 75 ohms, unbalanced Y/C: Y: 1.0 Vp-p, 75 ohms, unbalanced C: 0.29 Vp-p, 75 ohms, unbalanced
Signal-to-noise ratio: 45 dB (S-VHS/VHS, SP)
Horizontal resolution: 400 lines (S-VHS)
AUDIO
Recording system: 2 Hi-Fi tracks/Monaural longitudinal track
Input Line: -8 dBs, 50 k-ohms, unbalanced Mic: -67 dBs, 10 k-ohms, unbalanced
Output Line: -6 dBs, 1 k-ohm, unbalanced Phones: 8 ohms to 1 k-ohm, unbalanced
Frequency response: 100 Hz to 10,000 Hz (Normal) 20 Hz to 20,000 Hz (Hi-Fi)
Single-to-noise ratio: 40 dB (Normal)
Dynamic range: 90 dB (Hi-Fi)
Wow & Flutter: Less than 0.3% WRMS (Normal) Less than 0.005% WRMS (Hi-Fi)
TIMER
Clock reference: Quartz-crystal
Program capacity: 14-day programmable timer/8 programs
ACCESSORIES
Provided accessory: Y/C cable (4-pin) Infrared remote control unit "AAA" battery x 2

All model numbers, specifications and prices are subject to change without notice.

S-VHS Player/Recorder

SR-S360U

FEATURES

- **High-Resolution S-VHS Pictures with Advanced Processing Circuitry**
- **Hi-Fi Stereo with Hyper-Bass Sound**
- **Jog/Shuttle Controls**
- **Quick-Response Full-Loading Mechanism**
- **Various Tape Access Functions including Full and index Repeat Functions**
- **Convenient Editing Functions including Rotary Erase Head, insert Editing, and Random Assemble Editing**
- **Editing Feeder Capability in Combination with the BR-S378U**
- **Built-in PLL frequency-synthesized 181-channel cablecompatible funer with MTS decoder**
- **Full-function wireless remote control**
- **1-Year/8-event programmable timer**
- **Automatic head cleaner**
- **Digital AV Tracking**
- **Auto-reset realtime tape counter (switchable to remaining tape time indicator)**
- **On-screen menu display**
- **Remote Pause input**
- **Optional wired remote control (RM-G30U)**

* Y/C filtering technique incorporated under license from FAROUDJA Laboratories Inc.

* Employs chroma-enhancing technology co-developed by JVC and FAROUDJA Laboratcries and modified for S-VHS applications

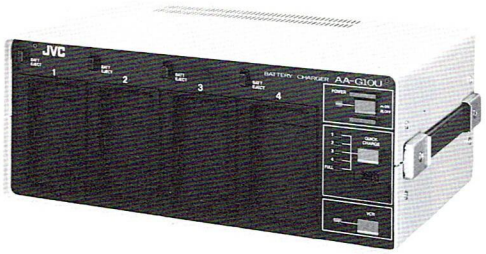
SPECIFICATIONS

GENERAL
Power requirement: AC 120 V , 60 Hz
Power consumption: 34 W
Temperature Operating: 41°F to 104°F Storage: -4°F to 140°F
Humidity Operating: 35% to 80% Storage: 5% to 80%
Operating position: Horizontal only
Dimensions (WxHxD): 435 x 105 x 395 mm (17-3/16" x 4-3/16" x 15-9/16")
Weight: 6.7 kg (14.8 lbs)
Format: VHS/S-VHS standard
Tape width: 12.65 mm
Tape speed (SP): 33.35 mm/sec (1-5/16 ips) (EP): 11.12 mm/sec (7/16 ips)
Maximum recording time (SP): 120 min. with T-120/ST-120 video cassette (EP): 360 min. with T-120/ST-120 video cassette
VIDEO
Signal system: NTSC-type color signal/NTSC-type Y/C signal
Recording system: Rotary two-head helical scan system Luminance: FM recording Color: Down-converted direct recording
Input Line: 0.5 to 2.0 Vp-p, 75 ohms, unbalanced Y/C: Y: 0.8 to 1.2 Vp-p, 75 ohms, unbalanced C: 0.2 to 0.4 Vp-p, 75 ohms, unbalanced

Output Line: 1.0 Vp-p, 75 ohms, unbalanced Y/C: Y: 1.0 Vp-p, 75 ohms, unbalanced C: 0.29 Vp-p, 75 ohms, unbalanced
Signal-to-noise ratio: 45 dB (S-VHS, SP)
Horizontal resolution: 400 lines (S-VHS)
AUDIO
Recording system: 2 Hi-Fi tracks/Monaural longitudinal track
Input Line: -8 dBs, 50 k-ohms, unbalanced
Output Line: -8 dBs, 1 k-ohm, unbalanced Phones: 8 ohms to 1 k-ohm, unbalanced
Frequency response: 70 Hz to 10,000 Hz (Normal) 20 Hz to 20,000 Hz (Hi-Fi)
Dynamic range: 90 dB (Hi-Fi)
Wow & Flutter: Less than 0.005% (Hi-Fi)
TIMER
Clock reference: Quartz-crystal
Program capacity: 1 year programmable timer/8 programs
ACCESSORIES
Provided accessory: Y/C cable (4-pin), RF cable (F-type), Mini-plug cable, Infrared remote control unit "AA" battery x 2

All model numbers, specifications and prices are subject to change without notice.

S-VHS Accessories (1)



AA-G10U
AC Adapter/battery charger
Charges 4NB-G1U battery packs

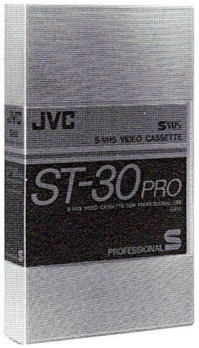
NB-G1U
Rechargeable battery for BR-S422U/ BR-S411UB/BR-S420CU/BR-S405U (2.2 AH)

RM-G30U
Remote Control Unit for BR-S601MU

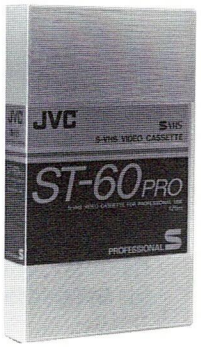
S TAPES

PROFESSIONAL

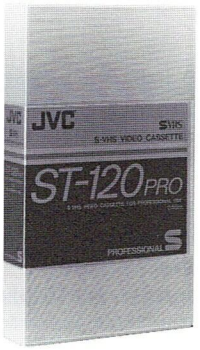
ST-30 PRO



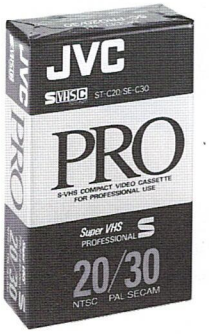
ST-60 PRO



ST-120 PRO



SC-PRO20/30
(S-VHS-C Professional Tape)



S-VHS CABLES

VC-G1050U

VC-G1035U

VC-G1025U

VC-G1015U

VC-G2050U

VC-G3030U

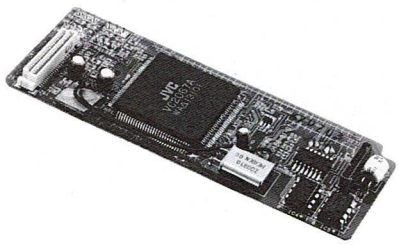
VC-G7050U

VC-G9050U

S-VHS CABLES		
Model No.	Description	Length
VC-G1015U **VC-G1025U** **VC-G1035U** **VC-G1050U**	7-pin male to 7-pin female	1.5 m (4.75 ft) 2.5 m (8 ft) 3.5 m (9.75 ft) 5.0 m (1.6 ft)
VC-G2030U **VC-G2050U**	7-pin male to 4-pin S-connector	3.0 m (9.75 ft) 5.0 m (16 ft)
VC-G3030U	4-pin S-connector to 7-pin female	3.0 m (9.75 ft)
VC-G7050U	45-pin male to 45-pin female	5.0 m (1.6 ft)
VC-G9050U	9-pin male to 9-pin female	5.0 m (1,6 ft)

All model numbers, specifications and prices are subject to change without notice.

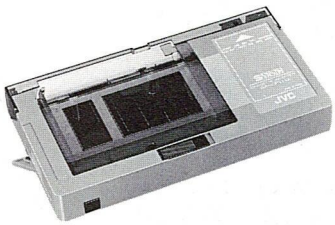
S-VHS Accessories (2)



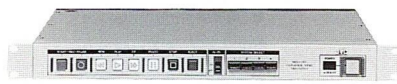
SA-R200U
TC Generator
for BR-S422UB

SA-S10U
Battery Holder
for NB-G1U

SA-S11U
Battery Holder
for NP-1



SA-CP11U
Compact Cassette
Adapter

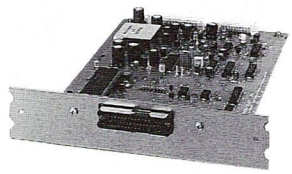


RM-G77U
Serial Remote
Controler for Duplicator

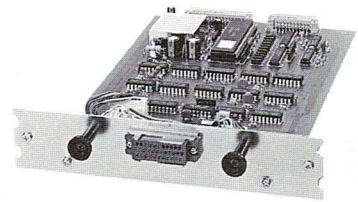
Functions that can be controlled with the RM-G77U: PLAY/STOP/REC/FF/REW/ REC-PAUSE/PAUSE/EJECT/Hi-Fi ON/OFF

RM-G61U
Remote Control Unit
for BR-S601MU

SA-F15U
15p-45p Interface
Unit for BR-S601MU



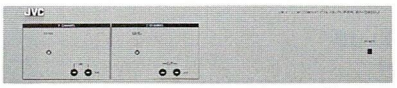
SA-K18U
45-pin Remote Board
for BR-S605U



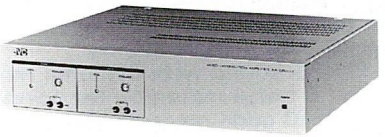
SA-K33U
33-pin Remote Board
for BR-S605U

All model numbers, specifications and prices are subject to change without notice.

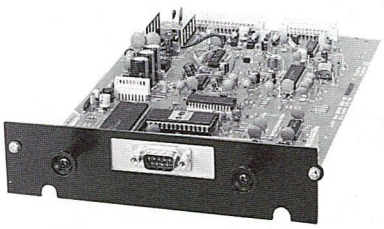
SA-E100U
Y/C Separator



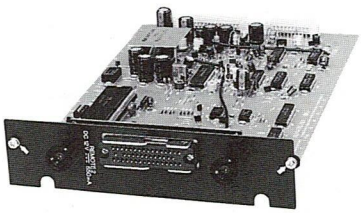
SA-D810U
Y/C Distributor Amplifier



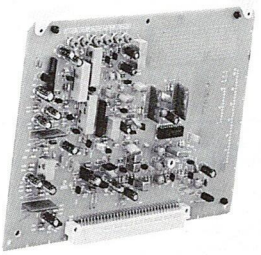
SA-D820U
Video Distributor Amplifier



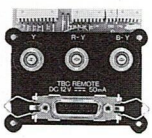
SA-K27U
RS-232U Remote Board for BR-S622U, BR-S822U and BR-S605UB

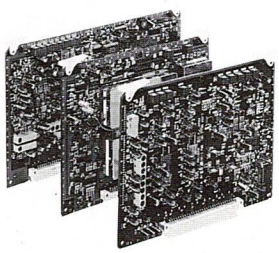


SA-K28U
45-pin Remote Board for BR-S622U, BR-S822U and BR-S605UB

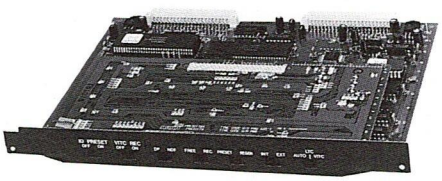


SA-E68U
Y/C 688 Output Board for BR-S525U, BR-S622U and BR-S822U



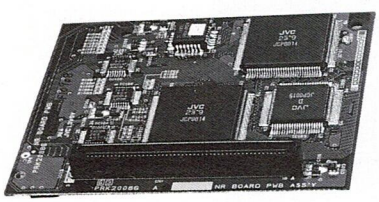


SA-T22U
TBC Board for BR-S622U and BR-S822U



SA-R22U
TC Generator/Reader for BR-S525U, BR-S622U and BR-S822U

SA-K63UB
Rack Mount Kit for BR-S611U, BR-S811U, BR-S525U, BR-S622U and BR-S822U



SA-N22W
Digital Noise Reducer

All model numbers, specifications and prices are subject to change without notice.

S-VHS Duplicators

BR-S747U/BR-S777U

FEATURES

- The world's first multi-chassis professional S-VHS duplicator with optional auto cassette loaders (BR-S747U)
- The world's first multi-chassis professional S-VHS duplicator (BR-S777U)
- 3-in-1 design for three-way savings (in space, energy, and peripheral equipment costs)
- High S-VHS picture quality*
- Hi-Fi VHS sound with dynamic range of 90 dB
- Dolby* B noise reduction for normal audio
- 16-digit ID code recording capability: Bulit-in 8-digit ID code generator and the optional external code generator
- Upgraded serial remote control capabilities
- Audio input level meter
- Built-in self-diagnostic warning system
- Three large REC indicators
- Three 5000-hour meters
- Independently replacable recording units
- Front panel test points with recorder unit selectors
- Automatic head cleaning mechanism

* Y/C filtering technique incorporated under License from FAROUDJA Laboratories INC.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

Picture shows BR-S747U with optional SA-L30U auto cassette loaders

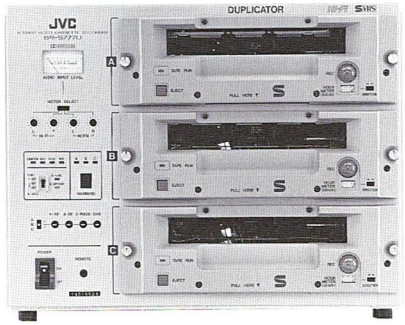
SPECIFICATIONS

GENERAL
Format: S-VHS (SP/EP)/VHS (SP)
Tape width: 12.65 mm (1/2 inch)
Tape speed: 33.35 mm/s (SP mode)
Recording time: 120 minutes with ST-120 cassette
Fast forward/Rewind time: 4.0 min. for 120 min. tape
Operating temperature: 5°C to 40°C (41°F to 104°F)
Storage temperature: – 20°C to 60°C (– 4°F to 140°F)
Ambient humidity: 30% to 80%
Power consumption: 78 watts
Power requirement: AC 120V ~, 50/60 Hz
Dimensions: 430 mm (W) × 345 mm (H) × 485 mm (D) (16-15/16" × 13-5/8" × 19-1/8")
Weight: 30 kg (67 lbs)

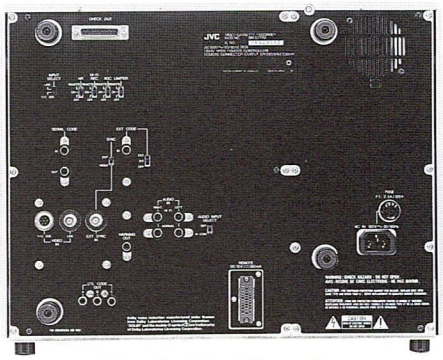
VIDEO (REFERENCE SPECIFICATIONS)
Recording system: Rotary four-head, helical scanning system Luminance: FM recording Color: Down-converted direct recording
Video signal system: NTSC-type Y/C and NTSC-type color signals
Input level (line): 0.5 to 2.0 Vp-p, 75 ohms, unbalanced
Input level (Y/C): Y: 0.5 – 2.0 Vp-p, 75 ohms, unbalanced C: 0.3 Vp-p, 75 ohms, unbalanced (Burst)
Signal-to-noise ratio: 45 dB (VHS/Color)
Horizontal resolution: 240 lines (VHS/Color) 400 lines (S-VHS/Color)

AUDIO (REFERENCE SPECIFICATIONS)
Input level (line): – 6 dBs, 10 k-ohms, unbalanced (Hi-Fi/Normal)
Signal-to noise ratio: 48 dB (NR-on, at 3% distortion) 44 dB (NR-off, at 3% distortion)
Frequency response: 20 to 20,000 Hz (Hi-Fi) 40 to 12,000 Hz (Normal)
Wow and flutter: Less than 0.005% wrms (Hi-Fi) Less than 0.15% wrms (Normal/Selfrecording & PB)
Dynamic range: 90 dB (Hi-Fi)
ACCESSORY: Power cord

* VIDEO & AUDIO specifications (except wow and flutter) are based on playback by a standard player/recorder.



BR-S777U

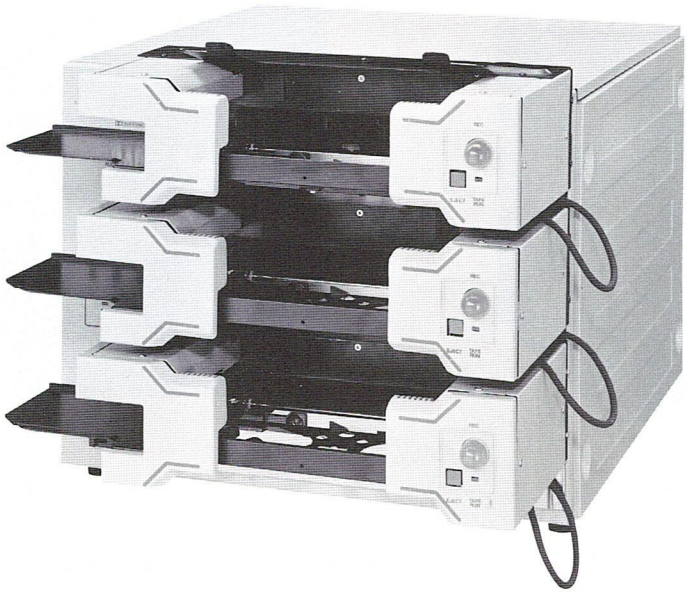


BR-S747U/BR-S777U

All model numbers, specifications and prices are subject to change without notice.

3-in-1 Hi-Fi VHS Duplicator with Auto Cassette Loaders

BR-7040UB



Picture shows BR-7040UB with optional SA-L30U auto cassette loaders

FEATURES

- **3-in-1 Hi-Fi VHS Duplicator with optional auto cassette loaders**
- **Four-way cost savings (in space, energy, peripheral equipment costs, and labour)**
- **Record-only chassis for superior quality**
- **Hi-Fi video sound with dynamic range of 90 dB**
- **Dolby* B noise reduction for normal audio**
- **RCA serial code remote control**
- **Audio input level meter**
- **Built-in self-diagnostic warning system**
- **Three large REC indicators**
- **Three 5000-hour meters**
- **Independently replaceable recording units**
- **Front panel test points with recorder unit selectors**
- **Automatic head cleaning mechanism**
- **The optional SA-K20U Playback Unit**
- **The optional SA-K14U ID code board and the SA-K15U ID code display**

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

SPECIFICATIONS

GENERAL

Format: VHS (standard play)

Tape width: 12.65 mm (1/2 inch)

Tape speed: 33.35 mm/s (SP mode)

Recording time: 120 minutes with T-120 cassette

Fast forward/rewind time: 4.0 min. for 120 min tape

Operating temperature: 5°C to 40°C (41°F to 104°F)

Storage temperature: –20°C to 60°C (–4 F to 140°F)

Ambient humidity: 30% to 80%

Power consumption: 66 watts (with loader)

Power requirement: AC 120V ~, 50/60 Hz

Dimenstons: 480 mm (W) × 395 mm (H) × 675 mm (D)
(18-15/16" × 15-9/16" × 27 5/8")
(with loaders and video cassettes)

Weight: 36 kg (80 lbs) (with loaders)

VIDEO (REFERENCE SPECIFICATIONS)

Recording system: Rotary two-head helical scanning system
Luminace: FM recording
Colour: Down-converted direct recording

Video signal system: NTSC-type color signal

Input level (line): 0.5 to 2.0 Vp-p, 75 ohms. unbalanced

Signal-to-noise ratio: 45 dB (Color)

Horizontal resolution: 230 lines (Color)

AUDIO (REFERENCE SPECIFICATIONS)

Input level (line): –6 dBs, 10 k-ohms, unbalanced
(Hi-Fi/Normal)

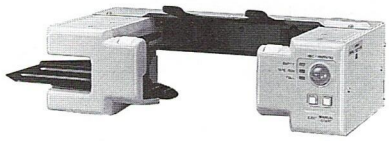
Signal-to-noise ratio: 48 dB (NR-on, at 3% distortion)
44 dB (NR-off, at 3% distortion)

Frequency response: 20 to 20,000 Hz (hi-Fi)
40 to 12,000 Hz (Normal)

Wow and flutter: Less than 0.005% wrms (Hi-Fi)
Less than 0.15% wrms (Normal/Self-recording & PB)

Dynamic range: 90 dB (Hi-Fi)

ACCESSORIES: Power cord



SA-L30U
Auto Cassette Loader
for BR-7040U

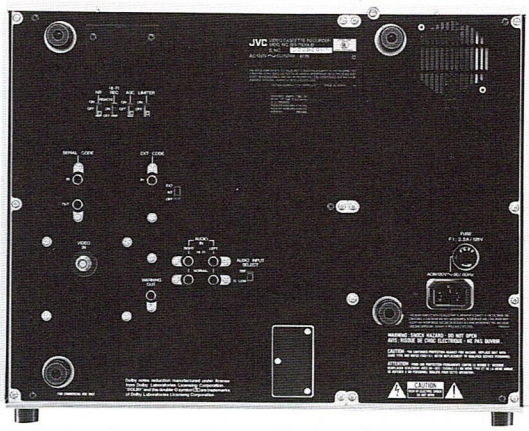
* VIDEO & AUDIO specificatons (except wow and flutter) are based on playing back by a standard player/recorder.

All model numbers, specifications and prices are subject to change without notice.

3-in-1 Hi-Fi VHS Duplicator

BR-7030UB

VHS®



FEATURES

- Three-in-one cost saving duplicator
- Reduced power consumption
- Record-only chassis for superior quality
- Single input for three recording units
- Self diagnostic warning system
- Two serial remote control connectors
- Three 5000-hour meters
- ID address code generating plug-in module (Optional SA-K14U)
- Front panel test points
- Large recording and warning indicators
- Warning output connector
- Independently replaceable recording units
- Automatic head cleaning mechanism
- Hi-Fi/normal audio with separate or combined inputs
- Dolby noise reduction on normal audio track

SPECIFICATIONS

GENERAL
Format: VHS (standard play)
Tape width: 12.65 mm (1/2 inch)
Tape speed: 33.35 mm/s (SP mode)
Recording time: 120 minutes with T-120 cassette
Fast forward/rewind time: Less than 4.0 min. for 120 min. tape
Operating temperature: 5°C to 40°C (41°F to 104°F)
Storage temperature: – 20°C to 60°C (– 4°F to 140°F)
Ambient humidity: 30% to 80%
Power consumption: 66 watts
Power requirement: AC 120V ~, 50/60 Hz
Dimensions: 430 mm (W) × 345 mm (H) × 485 mm (D) (16-15/16" × 13-5/8" × 19-1/8")
Weight: 30 kg (66 lbs)
VIDEO*
Recording system: Rotary two head, helical scanning system Luminance: FM recording Color: Down-converted direct recording
Video signal system: NTSC-type color signal
Input level (line): 0.5 to 2.0 Vp-p, 75 ohms, unbalanced
Signal-to-noise ratio: 45 dB (Color)
Horizontal resolution: 230 lines (Color)

AUDIO*
Input level (line): – 6 dBs, 10 k-ohms, unbalanced (Hi-Fi/Normal)
Signal-to-noise ratio: 48 dB (NR-on, at 3% distortion) 44 dB (NR-off, at 3% distortion)
Frequency response: 20 to 20,000 Hz (Hi-Fi), 40 to 12,000 Hz (Normal)
Wow and flutter (Self recording & PB): Less than 0.005% wrms (Hi-Fi) Less than 0.15% wrms (Normal)
Dynamic range: 90 dB (Hi-Fi)
ACCESSORY: Power cord

*VIDEO & AUDIO specificatons (except wow and flutter) are based on playing back by a standard player/recorder.

Dolby noise reduction manufactured under license from Dolby Lavoratories Licensing Corporation.
"DOLBY" and the Double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

All model numbers, specifications and prices are subject to change without notice.

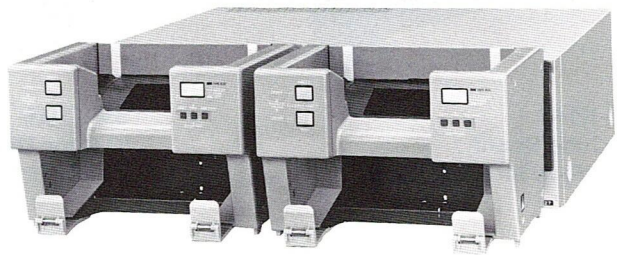
HI-FI VHS Duplicator

BR-7020U

VHS®

FEATURES

- Two-in-one cost-saving design
- High quality pictures and sound
- Improved reliability and durability
- Auto-loading capability for improved productivity
- Improved serviceability with removable and digital self-diagnostics
- Internal 8-digit ID code recording system with external ID code input capability
- Hi-Fi audio recording ON/OFF function (also possible via serial remote control)
- Video AGC ON/OFF function for use with Macrovision copy-protection system (also possible via serial remote control)
- Dolby Noise Reduction ON/OFF for normal audio (also possible via serial remote control)
- Separate input terminals for Hi-Fi and normal audio
- Switchable audio limiter
- Independent level controls for each audio channel
- 3-Color LED hour meter indicator
- 34-pin parallel remote control connector
- RCA serial remote control in/out loop-through connectors
- REC/WARNING indicators
- Warning output connector
- Multi-display unit (optional)



SPECIFICATIONS

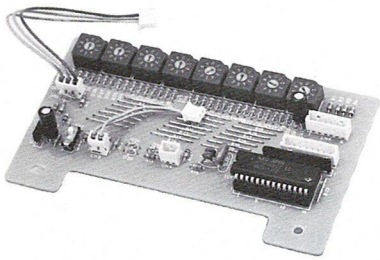
GENERAL
Tape format: VHS NTSC standard
Tape width: 12.65 mm
Tape speed: 33.35 mm/sec (1-5/16 ips)
Recording/Playback time: 120 min. (with T-120 video cassette)
Power consumption: 39 W (50 W with Remote Controller, Display and Loader)
FF/REW time: Less than 4.0/3.0 min. (with T-120 video cassette)
Operating temperature: 5°C to 40°C (41°C to 104°C)
Storage temperature: -20°C to 60°C (-40°C to 140°C)
Operating humidity: 30 % to 80 %
Dimensions (W × H × D): 500 × 155 × 429 mm (19-11/16" × 6-1/8" × 16-15/16") with foot pads
Weight: 18 kg (40 lbs)
VIDEO
Recording system: Rotary two-head helical scan system
Luminance: FM recording
Color: Down-converted direct recording
Signal system: NTSC-type color signal
Input: 0.5 to 2.0 Vp-p, 75 ohms, unbalanced, BNC
Output: 1.0 Vp-p, 75 ohms, unbalanced, BNC
Horizontal resolution: 240 lines (color)
Signal-to-noise ratio: 46 dB (color) with FUJI DC tape

AUDIO
Input: -6 dBs, 50 k-ohms, unbalanced, RCA (Hi-Fi/Normal)
Output: -6 dBs, 1 k-ohm, unbalanced, RCA (Hi-Fi/Normal)
Signal-to-noise ratio: 44 dB (Normal: NR-off, at 3% distortion)
Dynamic range: 90 dB (Hi-Fi)
Frequency response:
40 to 12,000 Hz (Normal)
20 to 20,000 Hz (Hi-Fi)
Wow and flutter: 0.006 % wrms (Hi-Fi)
0.15 % wrms (Normal)

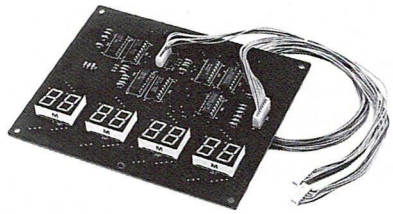
Video and audio specifications are based on playback with a standard player/recorder.

All model numbers, specifications and prices are subject to change without notice

VHS Duplicator Accessories



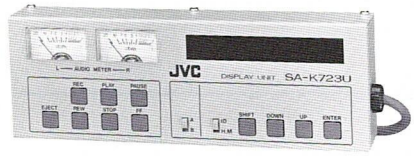
SA-K14U
ID Code Board
for BR-7030U/BR-7040U



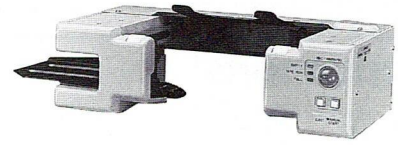
SA-K15U
ID Code Display
for BR-7030U/BR-7040U

SA-K721V
Checkout Connector for
BR-7020U

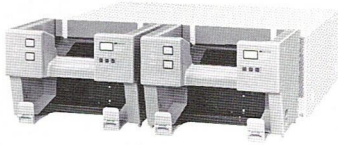
SA-K722U
Test Point Unit for
BR-7020U



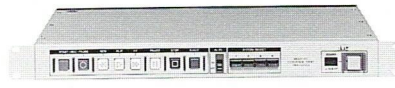
SA-K723U
Multi-Didplay Unit for
BR-7020U



SA-L30U
Auto Cassette Loader
for BR-7040U



SA-L50U
Auto Cassette Loader for
BR-7020U



RM-G77U
Serial Remote Control Unit
for BR-7040U/BR-7030U

RM-G30U
Serial Remote Control Unit

All model numbers, specifications and prices are subject to change without notice.

VHS Editing Recorder

BR-8600U

VHS®

FEATURES

- Professional-quality editing functions with frame servo
- Preroll function for automatic editing
- Heavy-duty mechanism with direct-drive motors
- Variable-speed dial search from still to 10 times normal, in both forward and reverse directions
- 45-pin remote control connector
- Improved color dubbing quality
- Three video inputs selectable
- 2-channel normal audio with Dolby B* Noise Reduction
- External sync capablity
- Condensation detector and built-in moisture condensation prevention heater
- Warning indicator for any malfunction related to tape transport or moisture condensation

* Dolby noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation
Dolby and the Double-D symbol ⧈ are the trademarks of Dolby Laboratories Licensing Corporation.

VHS Hi-Fi Video Recorder

BR-7700U

VHS®

FEATURES

- Professional video quality plus Hi-Fi audio
- Heavy-duty mechanism with direct-drive motors
- Variable-speed dial search from still to 10 times normal, in both forward and reverse directions
- 45-pin remote control connector
- Video AGC ON/OFF switch
- External sync capability
- Vertical-interval switching (AEF)
- Condensation detector and built-in condensation prevention heater
- Warning indecator for any malfunction related to the tape transport mechanism or connectors
- 2 channel normal audio with Dolby B* Noise Reduction

SPECIFICATIONS

Model	BR-8600U	BR-7700U
GENERAL		
Format:	VHS ½" (12.65 mm) NTSC standard	VHS ¼" (12.65 mm) NTSC standard
Power requirement:	120V AC, 50/60 Hz	120V AC, 50/60 Hz
Powerconsumption:	68 watts (Max. 80 watts with the Automatic Editing control Unit, 12V DC, 550 mA)	68 watts (Max. 80 watts with the Remote Control Unit, 12V DC, 550 mA)
Operaing temperature:	5°C to 40°C (41°F to 104°F)	5°C to 40°C (41°F to 104°F)
Storage temperature:	– 20°C to 60°C (– 4°F to 140°F)	– 20°C to 60°C (– 4°F to 140°F)
Tape speed:	33.35 mm/sec (1.31 inches/sec)	33.35 mm/sec (1.31 inches/sec)
Recording & Playback time:	Max. 120 min. with JVC T-120	Max. 120 min. with JVC T-120
Fast forward/Rewind time:	less than 5 min. for 120 min. tape	less than 5 min. for 120 min. tape
Wow and flutter:	less than 0.25%rms (Normal)	Normal: Less than 0.15%WRMS; Hi-Fi: Less than 0.005% WRMS
Search speed:	Shuttle FWD/REV ± 10X Variable 0–± 5X, ±10X	Shuttle FWD/REV ± 10X Variable 0–± 5X, ±10X
VIDEO		
Recording & Playback system: Luminance: Color scanning:	Rotary two-head, helical scanning system FM recording Phase shift, converted subcarrier direct recording	Rotary two-head, helical scanning system FM recording Phase shift, converted subcarrier direct recording
Video signal system:	NTSC-type color signal (EIA standard)	NTSC-type color signal
Input:	Line/TV– 0.5 to 2.0 Vp-p, 75 ohms, unbalanced	Line/TV– 0.5 to 2.0 Vp-p, 75 ohms, unbalanced
Output:	Line/TV– 1.0 Vp-p, 75 ohms, unbalanced	Line/TV– 1.0 Vp-p, 75 ohms, unbalanced
Signal-to-noise ratio:	45 dB (Rohde and Schwarz noise meter)	45 dB (Rohde and Schwarz noise meter)
Horizontal resolution:	Monochrome: 300 lines, Color: 240 lines	Monochrome: 300 lines, Color: 240 lines
Sync input:	4 + 0/– 3 Vp-p, 75 ohms, unbalanced	4 + 0/– 3 Vp-p, 75 ohms, unbalanced
AUDIO		
Input:	Line: – 6/– 20 dB (selectable), 10 k-ohms, unbalanced Mic: – 70 to – 60 dBm, 600 ohms, unbalanced TV: – 20dB, 10 k-ohms, unbalanced	Line: – 6 dB, 10 k-ohms, unbalanced
Output	Line: – 6 dB, low impedance, unbalanced Monitor: 0 dB, low impedance, unbalanced Headphone: Variable, 8 to 300 ohms, unblanced TV: 0 dB, low impedance, unbalanced	Line: – 6 dB into 1 k-ohms, unbalanced Monitor: 0 dB, low impedance, unbalanced
Signal-to-noise ratio:	48 dB (NR-on), 44 dB (NR-off) (at 3% distortion level)	Normal: 48 dB (NR-on), 44 dB (NR-off) Hi-Fi: 72 dB
Frequency response:	20 to 12,000 Hz	Normal: 40 to 12,000 Hz; Hi-Fi: 20 to 20,000 Hz
Dimensions:	44.0 (W) × 16.5 (H) × 43.0 (D) cm (17¼" × 6½" × 17")	44.0 (W) × 17.4 (H) × 44.5 (D) cm (17¼" × 6½" × 17")
Weight:	18.5 kg (41.0 lbs)	18.5 kg (41.0 lbs)

All model numbers, specifications and prices are subject to change without notice.

VHS Video Cassette Recorders

BR-3200U

VHS®

FEATURES

- **Oval-cut DA-4 head system for high quality pictures**
- **Quick-response full-loading mechanism**
- **Digital tracking**
- **Noiseless still and slow motion playback at five different speeds in both directions**
- **Variable speed search and double speed forward playback**
- **Realtime Go-To search/Skip search**
- **Full/segment repeat playback**
- **Full function remote control unit**
- **On Screen mode display**
- **181-channel cable compatible frequency synthesized tuner**
- **1-month/8-event programmable timer**
- **BNC connectors for VIDEO IN/OUT**
- **SP/EP recording, SP/LP playback**

BR-3200U

SPECIFICATIONS

GENERAL	BR-3200U
Power requirement	AC 120V ~, 60 Hz
Power consumption	19W
Temperature Operating 5°C to 40°C (41°F to 104°F)	
Storage	–20°C to 60°C (–4°F to 140°F)
Humidity Operating 35% to 80%	
Storage	5% to 80%
Operating position	Horizontal only
Dimensions (W × H × D)	435 × 94 × 334 mm (17-3/16" × 3-3/4 × 13-3/16"
Weight	5.2 kg (11.5 lbs)
Format	VHS NTSC standard
Tape width	12.65 mm
Tape speed	(SP): 33.35 mm/sec (1-5/16 ips)
	(EP): 11.12 mm/sec (7/16 ips)
Maximum recording time	(SP): 160 min. with T-160 video cassette
	(EP): 480 min. with T-160 video cassette
VIDEO	
Signal system	NTSC-type color signal and EIA monochrome signal, 525 lines/60 fields
Recording system	Rotary two-head helical scan system with slant double-azimuth combination video heads
Input	0.5 to 2.0 Vp-p, 75 ohms, unbalanced (BNS)
Output	1.0 Vp-p, 75 ohms, unbalanced (BNC)
Signal-to-noise ratio	45 dB (Rohde & Schwarz noise meter) with PICTURE sharpness CONTROL at center position
Horizontal resolution 240 lines	

AUDIO	
Input	–8 dBs, more than 50-k -ohms,
	unbalanced (RCA Pin)
Output	–6 dBs, less than 1k-ohm, unbalanced (100 k-ohms, load) (RCS Pin)
Frequency range	70 Hz to 10,000 Hz

TUNER	
Tuning system	Frequency synthesized tuner
Channel coverage	(VHF); Channels 2-13
	(UHF): Channel 14- 69
	(CATV): 113 Channels
RF output	Channel 3, 4 or OFF (switchable, preset to Channel 3 when shipped) 75 ohms, unbalanced (F connector)
TIMER	
Clock reference	AC line
Program capacity	1-month programmable timer/8 programs
Accessory	Remote control unit "AAA" battery × 2

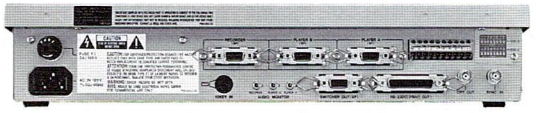
All model numbers, specifications and prices are subject to change without notice.

A/B Roll Editing Controller

RM-G870U

FEATURES

- A/B roll editing with two feeders
- Built-in 127 event edit memory with on-screen EDL display
- Capability of variable motion control
- Independent search/log dials for players and recorder
- Has the function of audio split editing
- GPI ports and RS-422 switcher interface for connection and control of external equipment
- AUX1/AUX 2 editing capability
- Variable pre-roll times with selectable capstan bump function
- Three 8-digit time counters
- Time code editing capability
- Audio monitor level adjustment
- First Edit function
- Preview and review functions
- Go-To function (can operate all three VCRs simultaneously)
- Edit point trim and cancel
- Comprehensive on-screen menu
- ALL STOP button
- Memory backup for editing data



SPECIFICATIONS

Power requirement: AC 120V

Power consumption: 24W

Weight: 4.8 kg (10.6 lbs)

Dimensions (W × H × D): 430 × 99 × 311 mm

Operating temperature: 0°C to 40°C

Storage temperature: -20°C to 60°C

VTR control functions: PLAY, FF, REW, STOP, PAUSE/STILL, SHUTTLE SEARCH, REC EE, JOG, EJECT, REC

Editing control functions: Edit modes: Assemble and insert

Reference signals: SMPTE time code or CTL pulse

Capstan bump: ON/OFF

Editing accuracy:
Timecode-referenced in capstan bump mode: ±0 frame (depending on VTR)
CTL-referenced in capstan bump mode: ±2 frames (depending on VTR)

Memory capacity: 127 events

VTR interface: 9-pin

Number of VTR's controllable: 2 players and 1 recorder

Time counter:
Counter reading display: Up to 23 hours, 59 minutes, 59 seconds, 24 frames (TC/CTL 24-hour display) from -9 hours to 9 hours, 59 minutes, 59 seconds, 24 frames (CTL 10-hour display)
Total programme time display: Maximum 11 hours, 59 minutes, 59 seconds.

Accessories: AC Power cord × 1
10 key pad × 1
Audio monitor cable × 3

VC-G9050U
9-pin Remote Control Cable (5m/1.6ft)

All model numbers, specifications and prices are subject to change without notice.

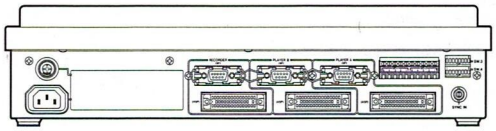
Editing Control Unit

RM-G860U

FEATURES

- **A/B roll editing with two feeders**
- **Independent search/jog dials for players and recorder**
- **9-pin serial and 45-pin parallel remote control interfaces**
- **Time-code-referenced editing**
- **Three 8-digit time counters**
- **Time counter and last-edit memory**
- **Two GPI ports for control of SEG and Audio Mixer**
- **Variable preroll times (3, 5, 7, and 10* seconds) with selectable capstan bump function**
- **Preview function**
- **Review function with selectable out-point-only capability (cut editing only)**
- **Go-To function (can operate all three VCRs simultaneously)**
- **Edit point trim and cancel**
- **Auto and Run Edit modes**
- **AUX mode for independent recorder operation when editing from and external source**
- **ALL STOP button**
- **Can be installed in a standard 19" rack**

* Requires DIP switch resetting.



SPECIFICATIONS

Power: AC 120 V ~, 50/60 Hz

Power consumption: 24 W

Weight: 4.8 kg (10.6 lbs)

Dimensions: 430(W) x 99(H) x 311(D) mm (16-15/16"x3-15/16"x12-1/4")

Operating temperature: 0°C to 40°C

Storage temperature: -20°C to 60°C

Connectors:
- AC IN: 3-lead
- SYNC: BNC
  - Composite sync 0.2 to 5.0 Vp-p
  - Composite video 0.5 to 2.0 Vp-p, 75 ohms, negative sync, unbalanced
- Video switcher: harmonica connector
- Audio mixer: harmonica connector

VTR control functions: PLAY FF, REW STOP, PAUSE/STILL, SHUTTLE SEARCH, REC EE, JOG, EJECT, REC, EDIT (recorder side only)

Applicable VTRs:

As players:	
KR-M820U/KR-M800U/BR-8600U/BR-7700U/CR-850U/CR-600U	Direct
BR-S811U/BR-S611U/BR-S810U/BR-S610U:	Direct or via SA-F911U
As recorders:	
KR-M820U/KR-M800U/BR-8600U/CR-850U:	Direct
BR-S811U/BR-S810U:	Direct or via SA-F911U

Editing control functions
- Edit modes: Assemble and Insert
- Ref. signals: SMPTE time code or CTL pulse
- Capstan bump: ON/OFF
- Editing accuracy: Timecode-referenced in capstan bump mode: ±0 frame (depending on VTR)
  CTL-referenced in capstan bump mode: ±2 frames (depending on VTR)

Time counter: Counter reading display: up to 23 hours, 59 minutes, 59 seconds, 29 frames (TC/CTL 24-hour display) from -9 hours to 9 hours, 59 minutes, 59 seconds, 29 frames (CTL 10-hour display)
Total program time display: Maximum 11 hours, 59 minutes, 59 seconds, 29 frames

Accessory: AC Power cord x 1

OPTIONAL ACCESSORIES

VC-G7050U
45-Pin Remote Control Cable (5 m/16 ft)

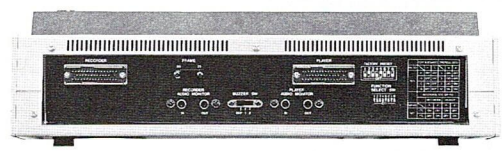
All model numbers, specifications and prices are subject to change without notice.

Editing Remote Control Unit

RM-G810U

FEATURES

- An editing remote control for the BR-S811U, BR-S611U, BR-8600U, BR-7700U and JVC VCRs with 45 pin connectors
- Built-in jog function
- Connecting to BR-S811U or BR-S611U, the tape counter display can indicate times (H, MM, SS, Frame) in FF/REW
- High speed search mode as well as playback and recording mode by counting CTL pulse
- Self illuminating buttons



SPECIFICATIONS

GENERAL
Power source: DC 12 V (supplied from VCR)
Power consumption:6.6 watts
Operating temperature: 5°C to 40°C (40°F to 104°F)
Dimensions: 430 (W) × 118 (H) × 322 (D) mm ($16^{15}/_{16}$" × $4\frac{1}{2}$" × $12^{11}/_{16}$")
Weight: 6.0 kg (13.3 lbs)
VCR CONTROLS
Control buttons: PLAY, REC, FF, REW, STOP, PAUSE/STILL, SEARCH, JOG
Dial Search: Maximum search speed is determined by the VCR
EDITING CONTROLLS
Editing modes: Assemble and insert
Edit-point memory: Edit in and edit-out points held in memory (preview, perform review possible)
Edit-point shift: Possible by frame in both directions
COUNTER DISPLAY
Time counter: Up to 9 hours, 59 minutes, 59 seconds, 29 frames (NTSC mode)
Display: Display time/elapsed time of an edit/Edit-in and edit-out point/edit duration
Display medium: LED
ACCESSORY
Remote control cable (45-pin) × 2 (5 m/16 ft)

All model numbers, specifications and prices are subject to change without notice

Time Base Corrector/Noise Reducer

S-VHS

SA-T411U

FEATURES

- Separate Y/C digital processing:4:1:1 component format with 8-bit quantization of both Y and C signal components
- Built-in noise reducer to improve luminance and chroma signal in multi generation dubs
- BNC and 7-pin Y/C 358 connectors
- Built-in frame memory
- Built-in dropout compensator
- Y-signal digital delay line
- Switchable ACC (Automatic Chroma Level Control) circuit
- Black stretch circuit
- Frame and field freeze
- Remote control capability

SPECIFICATIONS

GENERAL

AC power requirement: AC 120 V, 50/60 Hz

Power consumption: 95 W

Operating temperature: +5 to40°C

Operating humidity: 10 to 90%

Dimensions: 430 (W) × 86 (H) × 515 (D) mm
(16-15/16" × 3-7/16" × 20-5/16")

Weight : Approx. 13kg (19.9 lbs)

VIDEO

Signal process: Component (Y, R-Y, B-Y = 4:1:1)

Time-base correction range: Infinite (1 frame/2 fields)

Sampling frequency: Y: 13.5 MHz
C: 3.3 MHz (4:1:1 format)

Sampling rate: Y:8-bit, C: 8-bit

Frequency response: Y: 5 MHz-3 dB
(Y/C 358, NR-OFF)
C: 3.58 MHz ±0.5 MHz-3 dB

Signal-to-noise ratio: 56 dB p-p/rms with quieting effects
(SC trap on, with Shibasoku noise meter)

DG (APL 10% to 90%): 2%

DP (APL 10 to 90%): 2°

K factor (2T): 2% (Heterodyne mode)

H tilt: 1%

V tilt: 1%

White clip: 110 IRE

Black clip: 0 IRE

Jitter: Y: ±15 nsec, C: ±2°

Freeze: Frame/field (A/B) selectabe

Auto freeze: Bad video sensor (on/off)

Vertical blanking: On/off selectabe

INPUT SIGNAL

Video input
Composite: 1.0 Vp-p, 75 ohms
Y/C 358: Y: 1.0 Vp-p, 75 ohms
C: 0.286 Vp-p, 75 ohms

Reference input: 1.0 Vp-p (VBS), 0.45 Vp-p (BB) 75 ohms

RF (DOC) input: 0.2 to 1.0 Vp-p, 75 ohms

OUTPUT SIGNAL

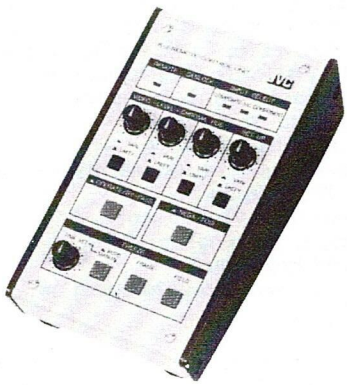
Video output
Composite: 1.0 Vp-p, 75 ohms
Y/C 358: Y: 1.0 Vp-p, 75 ohms
C: 0.286 Vp-p, 75 ohms
Component:
Y: 1.0 Vp-p,
75 ohms (EIA color bar)
R-Y/B-Y: 0.486 Vp-p,
75 ohms

Advanced sync output: 4.0 Vp-p, 75 ohms

ACCESSORIES: Power cord, Rack mount kit

Multi-Signal Standard Frame Synchronizer

KM-F250U



RM-P250U

REMOTE CONTROL UNIT
Designed to be used exclusively with the KM-F250U, the RM-P250U not only controls the KM-F250U's built-in functions from a distance up to 15m, but also adds two special-effects functions, strobe and Negative/Positive reversal.

- **Multi-signal standard transcoder function**
- **Full-frame time base correction**
- **Conforms to CCIR Recommendation 601 (4 : 2 : 2)**
- **Conforms to the RS-170A**
- **Built-in dropout compensator (DOC) circuit**
- **Field freeze and frame freeze functions**

SPECIFICATIONS

Input Signals

Composite video (VBS): 1 Vp-p, 75 ohms

Y/C separate: Y = 1.0 Vp-p, 75 ohms (with sync signal)
C (U-VCR, 688 kHz) = 0.50 Vp-p 75 ohms (level of Cy and R at 75% color bars input)
C (S-VHS 3.58 MHz) = 0.286 Vp-p 75 ohms (burst level)

Component: Y = 1.0 Vp-p, 75 ohms (with sync signal)
R-Y = 0.7 Vp-p, 75 ohms (100% color bars) 0.525 Vp-p (75% color bars)
B-Y = 0.7 Vp-p, 75 ohms (100% color bars) 0.525 Vp-p (75% color bars)

Reference sync: Black burst (B.B) 0.45 Vp-p, or NTSC composite video 1 Vp-p, 75 ohms
Loop-through output

DOC: RF carrier 3 to 10 MHz, 0.2 to 1 Vp-p, 75 ohms

Output Signals

Composite video (VBS): 1 Vp-p, 75 ohms
Y/C separate: Y = 1.0 Vp-p, 75 ohms (with sync signal)
C (U-VCR, 688 kHz = 0.85 Vp-p 390 ohms (level of Cy and R at 75% color bars input)
C (S-VHS, 3.58 MHz) = 0.286 Vp-p 75 ohms (burst level)

Component: Y = 1.0 Vp-p, 75 ohms (with sync signal)
R-Y = 0.7 Vp-p 75 ohms (100% color bars), 0.486 Vp-p (75% color bars)
B-Y = 0.7 Vp-p 75 ohms (100% color bars), 0.486 Vp-p (75% color bars)
ADV SYNC: 4 Vp-p, 75 ohms
REF SYNC: 4 Vp-p, 75 ohms
REF SC: 1 Vp-p, 75 ohms
REF BB: 0.45 Vp-p, 75 ohms

Quantization: 13.5 MHz, 8-bit (Conforms to the CCIR REC. 601)

TBC Range: 525H

S/N: 58 dB or more

Residual Jitter (no external reference sync):
Composite video: ± 15 nsec
Component: ± 15 nsec
Y/C separate: Luminance ± 15 nsec, hue ±2°

K Factor (2T Pulse)
Composite video:3%
Component: 1%

Frequency Characteristics:
Composite video: 4 MHz, within $^{+0.5}_{-3}$ dB (excluding chroma trap influence)
Component: Y: 5.5 MHz, within $^{+0.5}_{-3}$ dB
R-Y/B-Y 2.5 MHz, within $^{+0.5}_{-3}$ dB
Y/C separate: Y = 5.5 MHz, within $^{+0.5}_{-3}$ dB (excluding chroma trap influence)
C = 500 kHz, within – 3 dB

Power Supply: 120V AC, 60Hz
Power Consumption: 40W
Ambient Temperature: 5° to 40° C (41° to 104°F)
Weight: 6.9 kg (15.2 lbs)
Accessories: Power cord 1
75-ohm termination plug 1

RM-P250U

Power: 12 V/DC (supplied from KM-F250U)
Current consumption: 70 mA
Weight: 900 g (1.98 lbs)
Accessory: Connection cable 15 m 1

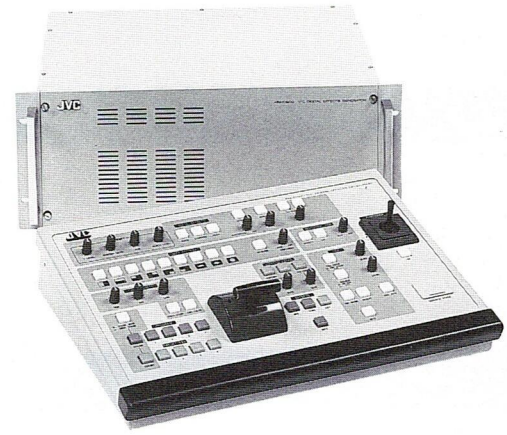
All model numbers, specifications and prices are subject to change without notice.

Y/C Digital Effects Generator

KM-D600U

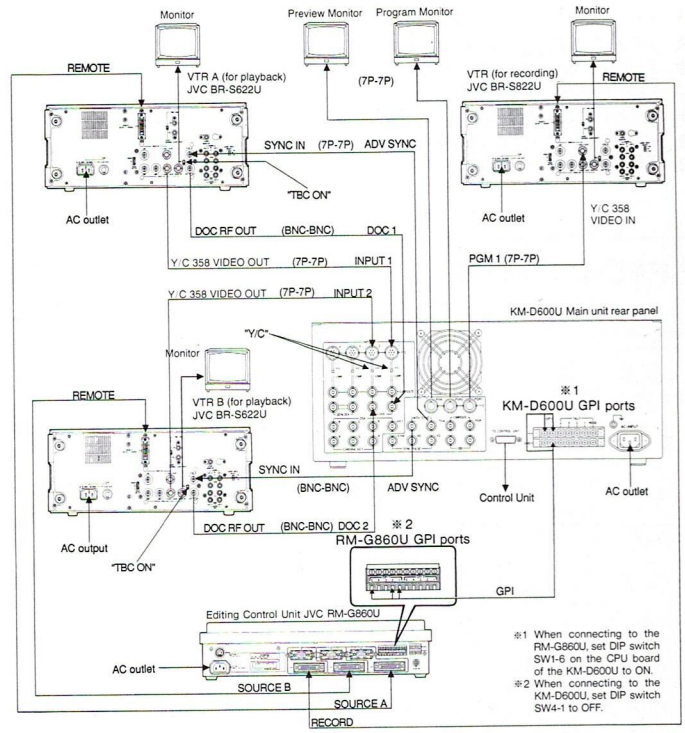
FEATURES

- Digital Effects (freeze, strobe, mosaic, slide, paint, negative and compression) with built-in dual channel TBC
- Y/C 358 and composite signals can be input
- Y = 8 bits, C = 8 bits 4 : 1 : 1 component process
- DOC and ADVANCED SYNC for VTR
- Built-in full-field color bar generator
- Auto and manual transition
- Soft Wipe / Positioner wipe
- GPI control for connection with VTR controller
- Built-in RGB chroma key
- Built-in color matte generator
- Fill video input terminal for DSK
- DSK masking function
- Y, C, and black levels and hue can be preset



SPECIFICATIONS

INPUT SIGNALS	
Video Inputs	Y/C 358: 4 inputs, Y: 1.0Vp-p (with Sync) C: 0.286Vp-p (Burst level), 75 ohms (7-pin × 4) VBS: 4 inputs, 1.0Vp-p, 75 ohms (BNC × 4)
Genlock Inputs	BB: 0.43Vp-p, 75 ohms or high impedance (BNC × 2)
Chroma Key Inputs	RGB: 0.7Vp-p, 75 ohms (BNC × 3)
DSK Key Input	VS or VBS: 0.7/1.0Vp-p, 75 ohms (BNC × 1)
DSK Fill Inputs	RGB: 0.7Vp-p, 75 ohms (BNC × 3)
DOC	0.2–1.0Vp-p, 75 ohms (BNC × 2)
GPI	Dry contact (Terminal)
OUTPUT SIGNALS	
Program Outputs	Y/C 358: 2 outputs, Y: 1.0Vp-p (with Sync) C: 0.286Vp-p (Burst level), 75 ohms (7-pin × 2)
Preview Output	Y/C 358: Y: 1.0Vp-p (with Sync) C: 0.286Vp-p (Burst level), 75 ohms (7-pin × 1)
Program VBS Output	1.0Vp-p, 75 ohms (BNC × 1)
Preview VBS Output	1.0Vp-p, 75 ohms (BNC × 1)
Tally Output	+5V or dry contact (Terminal)
SYNC OUTPUT SIGNALS	
BB	0.43Vp-p, 75 ohms (BNC × 2)
HD	4.0Vp-p, 75 ohms (BNC × 1)
VD	4.0Vp-p, 75 ohms (BNC × 1)
REF Sync	4.0Vp-p, 75 ohms (BNC × 1)
ADV Sync	4.0Vp-p, 75 ohms (BNC × 2)
PERFORMANCE	
Frequency Response	60Hz – 5.0MHz (+0.5dB, – 3dB)
S/N Ratio	More than 55dB (P-P/RMS)
Y/C Timing	Less than 50nsec.
Power Consumption	80W
Power Supply	120V AC, 50/60Hz
Ambient Temperature Range	5°C – 40°C (40°F – 104°F)



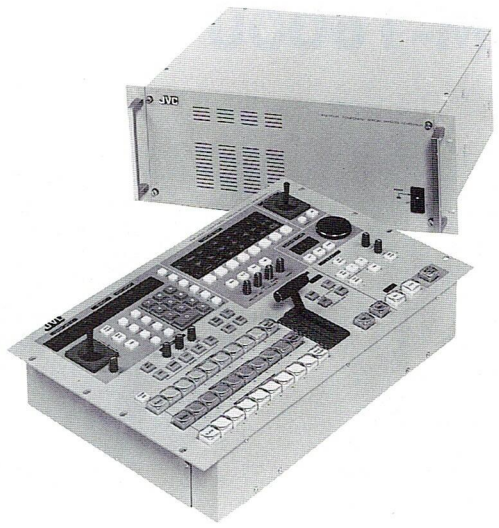
JVC A/B Roll Editing System

Component Special-Effects Generator

KM-3000U

FEATURES

- MII component processing.
- 8-Input component mixer, inputs 6, 7 and 8 also accept R.G.B. signals.
- Outputs in three different signal formats (component signals, composite and Y/C signal)
- Soft chroma key, external key and luminance key also possible
- Auto and manual transition:Special effects, downstream keys and fades can be operated either automatically or manually.
- The transition time in the auto mode can be set 0 to 999 frames with rotary dial or 10-digit key pad
- Color matte generation for border, background color and downstream key
- Built-in data memory (up to 16 events and 24 colors)
- 3-Mode composite effects can be mixed by leaving both the Background and Key switches on and actuating one extra effect.
- Interfaces with most VCR editing controllers (RS-422 & GPI)
- 23 Different wipe patterns



SPECIFICATIONS

Video inputs
Program × 8 Y : 1.0 Vp-p, 75Ω
R-Y/B-Y : 0.7 Vp-p (100% color bar), 75 Ω
R-Y/B-Y : 0.486 Vp-p (75% color bar with 7.5% setup), 75 Ω
Key × 2 VB: 0.7 Vp-p, 75Ω
Ext key × 1 VB: 0.7 Vp-p, 75Ω or High
Ext wipe × 1 VB: 0.7 Vp-p, 75Ω or High

Video output
Program
Component × 2 Y: 1.0 Vp-p, 75 Ω
R-Y/B-Y : 0.7 Vp-p (100% color bar), 75 Ω
0.486 Vp-p (75% color bar with 7.5% setup), 75 Ω
Composite × 1 VBS: 1.0 Vp-p, 75 Ω
Y/C output × 1 Y=1.0 Vp-p, 75 Ω
C=0.286 Vp-p, 75 Ω (burst level)
Preview
Component × 1 Y: 1.0 Vp-p, 75 Ω
R-Y/B-Y : 0.7 Vp-p (100% color bar), 75 Ω
0.486 Vp-p (75% color bar with 7.5% setup), 75 Ω
Composite × 1 VBS: 1.0 Vp-p, 75 Ω
Key hole × 1 BD: 0.7 Vp-p, 75 Ω

Gen lock input
B.B. × 1 VBS: 0.43 Vp-p, 75 Ω or High

Sync output
B.B. × 3 VBS: 0.43 Vp-p, 75 Ω

Fader output
Fader DC voltage × 1 0-5 V DC

Wipe patterns
23 patterns

Frequency response
60-5.5 MHz/±0.3 dB

Delay deference
±25 nS between each channels

Signal to noise ratio
More than 60 dB (100 KHz-4.5 MHz) measured by Rohde Schwartz noise meter

Cut
Cut 8 inputs

Mix (dissolve)
Manual fader or auto

Wipe
Hard, soft, border, softborder

Positioner Wipe
Effective to 4 wipe patterns, centering function provided

Chroma Key
Hue, clip, gain adjustable

Luminance Key
Clip, gain adjustable

Color matte generator
Back color, border color, DSK color, hue, sat lum adjustable

Color bar generator
75% Color bar (full field), black or color bar switchable

DSK Input
Input 1-8 selectable

DSK mask
Use wipe patterns for DSK mask

DSK preview
DSK preview push switch provided

Variable duration time
EFE, DSK, fade (0-999 frames)

Spot light
Use wipe patterns for key mask

Key Mask
Use wipe patterns for spot light

Effects Preview
Key preview and back ground preview possible

Event memory
Up to 16 events memory provided

Data entry key
Use ten key pad for data entry (hue, sat, lum, duration, wipe width, event no.)

Rotary dial
Change duration time (0-999 frames)
EFE, DSK, Fade

Editor interface
RS-422 serial interface equipped

GPI interface
EFE, DSK, fade, SEL

Power consumption
120 V AC, 220 V-240 V AC, 50/60 Hz
95 W (main unit), 28 W (control unit)

Dimensions
Control unit: 482 (W) × 150.5 (H) × 310 (D), (unit: mm)
Main unit: 482 (W) × 180.5 (H) × 410 (D), (unit: mm)

Weight
Control unit: 6.5Kg
Main unit: 14.5 Kg

Border Generator

KM-E300U

FEATURES

- Border Generator for KM-3000U/KM-1600U/KM-D600U
- All border, shadow, and outline effects are available in two different widths
- Two built-in color matte generators
- Border intensity control to produce seme-transparent effect edges (KM-3000U only)
- Slice level and gain of the key source are adjustable
- Edge position adjusment
- Two output signal modes are selctable (Y/R-Y/B-Y/KEY or R/G/B/KEY)

All model numbers, specifications and prices are subject to change without notice.

Color Special Effects Generator

KM-1600U

FEATURES

- **Special effects generator for S-VHS professional video system**
- **Built-in color Matte Generator**
- **Simplified Flip-Flop Bus Operation**
- **Built-in Data Memory**
- **Auto Transition Function**
- **Soft Wipes**

SPECIFICATIONS

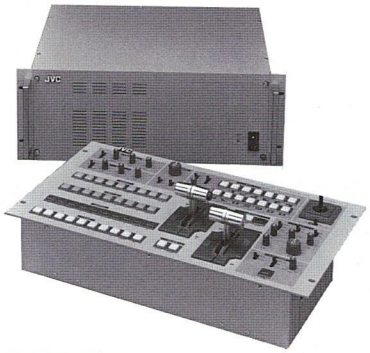
INPUT SIGNALS
Video Inputs: Y/C-358: 4 inputs, Y=1.0 Vp-p (with Sync) C=0.286 Vp-p (Burst level), 75 ohms (7P)
Genlock Inputs: BB: 0.43 Vp-p, 75 ohms or high impedance (BNC)
Chroma Key Inputs: RGB 0.7 Vp-p, 75 ohms (BNC)
DSK Key Input: VS or VBS 0.7/1.0 Vp-p, 75 ohms (BNC)
DSK R/G/B Input: RGB 0.7 Vp-p, 75 ohms (BNC)
GPI: Dry contact (Terminal)
OUTPUT SIGNALS
Program Outputs: Y/C-358: 2 outputs, Y=1.0 Vp-p (with Sync) C=0.286 Vp-p (Burst level), 75 ohms (7P)
Preview Output: Y/C-358: Y=1.0 Vp-p (with Sync) C=0.286 Vp-p (Burst level), 75 ohms (7P0
Program Output (VBS): 1.0 Vp-p, 75 ohms (BNC)
Preview Output (VBS): 1.0 Vp-p, 75 ohms (BNC)
Tally Output: +5V or dry contact (Terminal)

SYNC OUTPUT SIGNALS
BB (Black Burst (1,2): NTSC: 0.43 Vp-p, 75 ohms (BNC)
HD: 4.0 Vp-p, 75 ohms (BNC)
VD: 4.0 Vp-p, 75 ohms (BNC)
SYNC: 4.0 Vp-p, 75 ohms (BNC)
PERFORMANCE
Frequency Response: 60 Hz to 5.0 MHz ±0.5 dB, 5.0 MHz to 8.0 MHz +0.5 dB, −3 dB
S/N: More than 60 dB (P-P/RMS)
Y/C Timing: Less than 50 nsec.
Power Supply: 120V AC, 50/60 Hz
Power Consumption: 50W
Operating Temperature: 5°C to 40°C (40°F to 104°F)
Dimensions: 428 (W) × 320 (H) × 180 (D) mm 19" × $10^{3}/_{5}$" × $7^{1}/_{10}$"
Weight: 9.5 kg

All model numbers, specifications and prices are subject to change without notice.

Color Special Effects Generators

KM-2500U



FEATURES

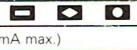
- Color border wipe function
- Color bar generator, background color generator
- Auto transition function
- DSK FILL video input terminal
- Flip-flop mix circuit
- GPI (General purpose interface) input terminal
- RGB chroma key circuit
- SSG conforming to RS-170A
- Bulit-in DSK function
- Multiple input connectors
- Built-in RGB chroma key circuit
- 13 wipe patterns available
- 3 way switching of the wipe direction normal, reverse and normal reverse

KM-1200U

FEATURES

- 4 composite video input connectors
- Genlock input is usable as the 5th video input instead of having background color
- Auto-take function
- Color background generator
- DSK (downstream keyer)
- Chroma keyer
- Mix function
- Wipe function
- External keying function
- 2 PGM outputs, 1 PVW output and 1 DSK PVW output
- Sync pulse output connectors
- AC/DC operation

SPECIFICATIONS

Mode	KM-2500U	KM-1200U
Video inputs:	Eight composite video signals 1 Vp-p 75 ohms or high (BNC)	4, composite video signals, 1.0 Vp-p (75 Ω or high impedance looped-through ouput), termination switch provided
AUX input:	One composite video signal (non-synchronous 1 Vp-p 75 ohms or high (BNC)	
Chroma key inputs:	R, G, B non-composite video signal 0.7 Vp-p 75 ohms or high (BNC)	R/G/B non-composite (or composite) video signal, 1.0 Vp-p (with SYNC) or 0.7 Vp-p (without SYNC)
External key input:	One composite or non-composite video signal 1/0.7 Vp-p 75 ohms or nigh (BNC)	1, composite or non-composite video signal, 1.0 Vp-p (with SYNC) or 0.7 Vp-p (without SYNC), (Chroma key and EXT key operations cannot be performed simultaneously.)
D.S.K. key input (Downstream key):	One composite video signal 1 Vp-p 75 ohms or high (BNC)	One composite video signal 1 Vp-p 75 ohms or high (BNC)
DSK video input:	One composite video signal 1 Vp-p 75 ohms or high (BNC)	1, composite or non-composite video signal, 1.0 Vp-p (with SYNC) or 0.7 vp-p (without SYNC) (75 Ω or high impedance looped-through output), termination switch provided
B/W superimpose input:	One composite video signal 1 Vp-p 75 ohms or high (BNC)	
Program output:	Three composite video signals 1 Vp-p 75 ohms (BNC)	2 composite video signal 1.0 Vp-p, 75 Ω (BNC)
Preview output:	One composite video signal 1Vp-p 75 ohms (BNC)	1 composite video signal 1.0 Vp-p, 75 Ω (BNC)
Frequency response:	60 Hz to 5 MHz ±0.3 dB	60 Hz to 5 MHz, ± 0.3 dB, 5 MHz to 8 MHz, + 0.3/– 2 dB)
DG:	Less than 1.5% at 10 to 90% APL	DG: less than 2%, 2° (10 to 90% APL)
DP:	Less than 1.5% at 10 to 90% APL	DP: less than 2%, 2° (10 to 90% APL)
S/N:	More than 60 dB (p-p/rms)	More than 60 dB (p-p/rms)
Sync output:	HD, VD, composite SYNC for external synchronization of B/W camera. 4 Vp-p 75 ohms. (BNC)	HD, VD and SYNC, BL 4.0 Vp-p, 75 Ω (BNC) Black burstBB1/BB2/BB3 0.43 Vp-p, 75 Ω (BNC)
SYNC PULSE output:	SYNC, BL, HD, VD, BFP, PAL-P4 Vp-p and SC 2 Vp-p for external synchronization, 75 ohms (BNC) (* These pulse are not available in EXT PULSE DRIVE mode)	
B.B (BLACK BURST) output:	Black burst signals 0.43 Vp-p 75 ohms. (Two outputs) For camera genlocking (BNC)	Black burst signals 0.45 Vp-p 75 ohms. (Two outputs) For camera genlocking (BNC)
Synchronization system:	1. Internal mode 2. External mode – Genlocked by composite video or black burst signal 3. Pulse drive mode – External SYNC, BL, HD, VD, BFP, SC, PAL-P (Note: Requires internal switching.)	2 modes, INT/EXT GENLOCK (with external VBS or BB) External genlock mode SC phase: COARSE (0°, 120° and 240° steps), FINE (± 60° continously variable)
Subcarrier:	Phase: Adjustable from 0° to 360° Coarse: In steps (0°, 120°, 240°) Fine: Continuously variable between steps	
Horizontal phase accuracy:	± 0.1 microseconds (with reference to the input synchronization signal)	
Wipe patterns:		6 wipe patterns
Positioner:	Effective for 	
Tally:	5 V DC (10 mA max.)	Voltage supply of 5 V DC (10 mA max.)
Ambient temperature range:	0°C to 40°C (32°F to 112°F)	0°C to 40°C (32°F to 112°F)
Power consumption:	AC 120V, 60 Hz, 70W (with Control unit)	Power consumption: AC 18 W/DC 1.2 A (12 V)
Dimensions & weight:	1. Main unit Standard EIA rack size (4 unit size) 12.5 kg 2. Control unit Standard EIA rack size (6 unit size) 5.0 kg (with Control unit.)	Dimensions: 482 (W) × 177 (H) × 100 (D) mm (19" × 7" × 4") Weight: 4.2 kg (9.3 lbs)

All model numbers, and prices are subject to change without notice.

10-Channel Audio Mixer/Auto Fader Unit

MI-3000U

FEATURES

- 8 Monaural channels plus a set of stereo channels
- Built-in VCA (Voltage-Controlled Amplifier) can be controlled by the MI-F30U
- EIA rack mountable
- 3-band equalizer for each channel (low, mid and high)
- Trim control (ch 1 to 8)
- 100 mm scale ultra-smooth fader control

SPECIFICATIONS

Input Signal
Ch 1 – 8: Monaural, A/B switchable
A Input: – 60/– 40/+4dB, more than 5kΩ, balanced (XLR-3-31)
B Input: CH 1 – 4 + 4dB, more than 5kΩ, balanced (XLR-3-31)
Ch 5 – 8: -20dB, more than 10Ω, unbalanced, (RCA)
Equalizer: Low: 100Hz ± 15dB, shelving
Mid: 150 Hz-7 kHz ± 15 dB, peaking
High: 10 kHz ± 15 dB, shelvinig
Ch 9: Stereo, line/phono switchable
Line: – 20/+4dB, 10kΩ, unbalanced, (RCA)
Phono: – 54dB, 1kHz, more than 50kΩ, unbalanced, (RCA)
Aux (1, 2): +4 dB, 10kΩ, balanced, (XLR-3-31) or unbalanced, (RCA)
Ext Ret (L, R): +4dB, 10kΩ, balanced (XLR-3-31)
Talk Back Mic: – 70dB, 600Ω, balanced (XLR-3-31)

Output Signals
Master (L, R): +4 dB, 600 Ω, balanced (XLR-3-32)
+4dB, 10kΩ, unbalanced, (RCA)
Aux (1, 2): +4 dB, 10 kΩ. unbalanced (RCA)
Monitor (L, R): +4dB, 10kΩ, unbalanced, (RCA)
Head Phone (L, R): 16-600Ω, max. 100mW at 16Ω (stereo phono jack)
Aux Meter: Master (L, R): +4 dB, 10kΩ, (9-pin, d-sub)
Monitor (L, R): +4 dB, 10kΩ, (9-pin, d-sub)
Oscillator: 10kΩ, (9-pin, d-sub)

Frequency Response: 20Hz – 20kHz+0/– 2dB

THD: Less than 0.08% (20Hz – 20kHz at +20dB output)

Equivalent input noise: Less than – 128dB (ihf a wtd)

Residual noise: Less than – 90fB (ihf a wtd)
Less than – 75dB (ihf a wtd)

Cross talk: less than – 70dB (1kHz)

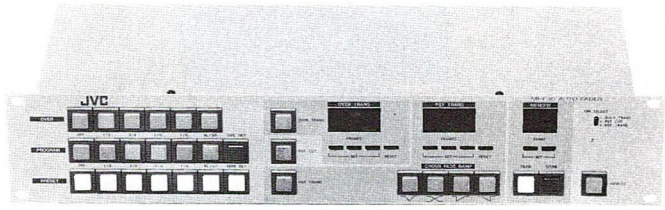
Oscillator: 400 Hz, 7 kHz (sine wave)

Max, output: +24 dB, 600 Ω, balanced

Power supply: 120V AC, 50/60Hz
220/240V AC, 50/60 Hz

Dimensions: 482 (W) × 115 (H) × 399 (D) (unit: mm)

MI-F30U



FEATURES

- Enhanced interface flexibility (RS422, RS232C and three GPIs)
- Four different transition patterns, with possible transition rates #999 frames (╲╱ ╳ ╱╲ ╲)
- 100 event memory
- EIA rack mountable

SPECIFICATIONS

Cross Point: 3-bus matrix type (over, program, preset)

Channel control: 2-channel gang operation (1/2, 3/4, 5/6, 7/8, 9L/9R)

Transition rates: 0 – 999 frames (over, preset)

Transition pattern: 4 patterns (v cut, cross fade, fade cut, cut fade)

Event memory: 100 memories (cross point, transition pattern, transition rate)

Serial interface: RS-422 or RS-232C

G.P.I.: 3 modes (over transition, preset transition, preset cut)

Power supply: 120 V AC, 50/60 Hz, 220/240 V AC, 50/60 Hz

Dimensions: 482 (W) × 88 (H) × 180 (D), (unit: mm)

All model numbers, specifications and prices are subject to change without notice.

Professional Audio Mixers

MI-2000U

Microphone is optional

FEATURES

- Microphone inputs incorporate transformers
- Line inputs using Cannon connectors facillitate the connection of balanced-output equipment
- Talk-back microphone input from the front panel connector
- Built-in oscillator for easy circuit checks
- Auxillary signal outputs for echo processing
- Phantom power supply for direct connection of condenser microphones
- Pre-fader listening function for easy checking of signals
- Direct mounting in an EIA rack
- Optional AC/DC converter for ENG mixer applications
- External monitor input makes editing easier

SPECIFICATIONS

INPUT LINES

CH-1-CH-4 MIC/LINE switchable
MIC: – 70/– 60/– 50/– 40/– 20 dB, balanced, XLR-3-31 type
LINE: – 10 dB, 10 kohm, balanced , XLR-3-31 type

CH5-CH6 MIC/LINE switchable
MIC: – 70/– 60/– 50/– 40/– 20 dB, balanced, XLR-3-31 type
LINE: – 10 dB, 10 kohm, unbalanced, RCA type pin jacks

CH7-CH8 MIC/PHONO switchable
MIC: – 70/– 60/– 50/– 40/– 20 dB, balanced, XLR-3-31 type
PHONO: – 54 dB, 50 kΩ, unbalanced, RCA type pin jacks(RIAA EQ built in)

MONITOR IN: 2 lines, – 10 dB, 10 kΩ, unbalanced, RA type pin jacks

TALK-BACK MIC: – 60 dB, 600 Ω matched, balanced, XLR-3-31 type

OUTPUT LINES

PROGRAM A: 2 lines, 0 dB, 600 Ω load impedance, balanced, XLR-3-32 type

PROGRAM B: 2 lines, 0 dB, 10 kΩ load impedance, unbalanced, RCA type in jacks

REC OUT: 2 lines, 0 dB, 10 kΩ, load impedance,unbalanced, RCA type pin jacks

AUX OUT: 1 lines, 0 dB, 10 kΩ load impedance, unbalanced, RCA type pin jacks

ATUDIO SEND: 2 lines, 0 dB, 10 kΩ load impedance, unbalanced, RCA type pin jacks

ROOM MONITOR: 2 lines, 0 dB, 10 kΩ load impedance, unbalanced, RCA type pin jacks

HEADPHONES: 1 line (stereo), 8 Ω max. 100 mW (Stereo standard phone jack)

FREQUENCY RESPONSE

MIC: 20 Hz to 20 kHz (+0 dB/– 2 dB)

LINE: 20 Hz to 20 kHz (+0 dB/– 1dB)

THD
MIC: Less than 0.1% (1 kHz)/0.3% (30 Hz to 20 kHz) (+ 20 dB output)
LINE: less than 0.1% (20 Hz to 20 khz) (+ 20 dB output)

Equivalent input noise: Less than – 128 dB (input 150 Ω, termination filter IHF-A)

Residual noise level: Less than – 90 dB (MASTER fader OFF), less than – 78 dB (channel faders OFF)

Crosstalk: Less than – 70 dB (1 kHz, between channels, between PGM and AUX out)

Oscillator: 1 kHz, sine-wave

Maximum output: +20 dB

Phantom power supply: 48 V DC

Power supply: 120 V AC, 12 V DC (with optional DC/DC converter)

Power consumption: AC 17 W, DC 1 A (with optional DC/DC converter)

Dimensions: 482 (W) × 125 (H) × 277 (D) mm (19" × $4^{15}/_{16}$" × $10^{15}/_{16}$")

Weight: 7.8 kg (18 lbs)

MI-1200U

FEATURES

- 10-channel rack-mount audio mixer
- Large slide control for easy operation
- 5-LED level meter display
- XLR-type 3-pin microphone connectors
- Compatible with both AC and 12 V DC power supplies
- Ideal for use in voice systems, in combination with the KM-1200 special effects generator

SPECIFICATIONS

Input Signals
Microphone: × 4, – 64 dB, 600 ohms balanced transformer type (XLR-31-3) (Hot: pin 3 for MI-1200U)
Turntable: × 1, – 54 dB, 50 kilohms unbalanced (RCA type pin × 2) (L/R mixing system)
Auxiliary: × 4, – 10 dB, 50 kilohms unbalanced (RCA type pin)

Output Signals
Program: × 1, 0 dB/– 20 dB switchable, 600 ohms balanced (XLR-32-3)
Headphones: × 1, 80 mWmax., 8 ohms load (stereo phone jack)

Frequency response: 50 to 15000 Hz, + 0/– 1.5 dB (at 1 kHz)

S/N: More than 60 dB (at 1 kHz)

Residual noise: Less than – 70 dB

Distortion: Less than 10% (at 1 kHz, rated output)

Level indecators: 5 LEDs (– 15/– 10/– 3/0/+3 dB indications)

Ambient temperature: 0 to 40°C (32 to 104°F)

Power supply: AC 120 V (MI-1200U), or DC 12 V

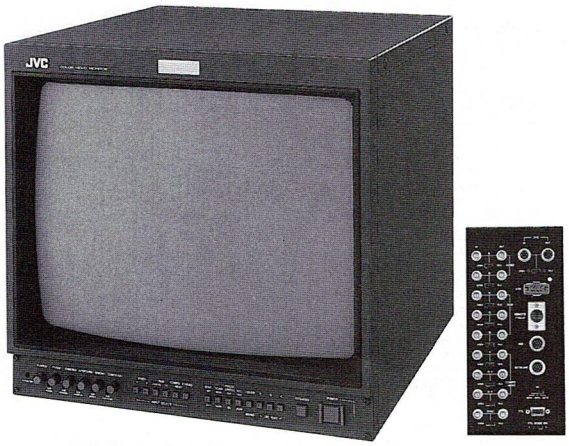
Power consumption: 5 W (AC), 2.2 VA (DC)

Dimensions:
Rack mounting: 19" EIA standard rack required panel units 4H
Unit dimensions: 482 (W) × 132 (H) × 91 (D) mm (19" × 5¼" × 3⅝")

All model numbers, specifications and prices are subject to change without notice.

Color Video Monitors

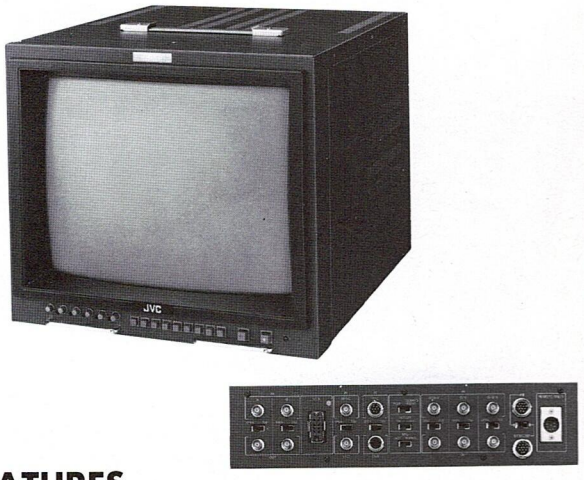
VM-R190SU 19"



FEATURES

- Multi-format capability accepts:
  1) Composite video signal (BNC/8-pin)
  2) RGB analog signal (BNC)
  3) RGB TTL signals (D-sub 9 Pin, IBM CGA Mode)
  4) Component video signal
     - 12 pin (for MII)
     - 12 pin (for BETACAM)
     - BNC
  5) Y/C (7 pin) for S-VHS
- 19"V (diagonally measured), in-line CRT with a dot pitch of 0.4 mm
- Horizontal resolution of more than 600 lines
- Mountable in EIA-19" standard rack with optional adapter
- Internal/external sync with bridged out connection feature
- Pulse cross circuit allows sync signal to be viewed
- Notch fillter reduces horizontal noise and dot interference
- Underscan switch enables full-screen check
- Remote control of input, scan, color, sync switchings and lighting of tally lamp
- Horizontal AFC select switch (Variable/normal)
- RGB select switch (TTL/analog)

VM-R140SU 14"



FEATURES

- Multi-format capability accepts:
  1) Composite video signal (BNC/8-pin)
  2) RGB analog signal (BNC) (common with Component signal)
  3) Component video signal
     - 12 pin (for MII)
     - 12 pin (for BETACAM)
     - BNC
  4) Y/C (7 pin) for S-VHS
- 14"V (diagonally measured), in-line CRT with a dot pitch of 0.435 mm
- Horizontal resolution of more than 500 lines
- Mountable in EIA-19" standard rack with optional adapter
- Internal/external sync with bridged out connection feature
- Pulse cross circuit allows sync signal to be viewed
- Notch fillter reduces horizontal noise and dot interference
- Underscan switch enables full-screen check
- Tally lamp
- Remote control of input, scan, color, sync switchings and lighting of tally lamp
- Horizontal AFC select switch (fast/normal)

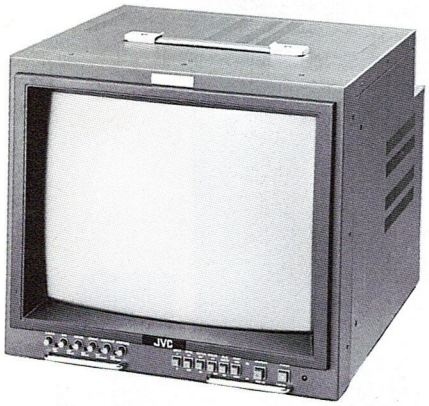
SPECIFICATIONS

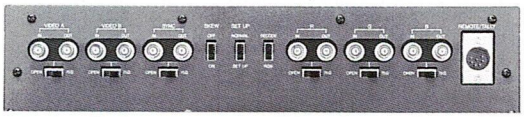
MODEL	VM-R190SU	VM-R140SU
Type:	Color video monitor	Color video monitor
Color systrem:	NTSC system	NTSC system
CRT:	19" (visual size/ diagonally measured), in-line gun medium-high resolution CRT, stripe-dot pitch 0.4 mm	14" (visual size/ diagonally measured), in-line gun medium-high resolution CRT, stripe-dot pitch 0.435 mm
Power requirement:	AC 120 V, 60 Hz	AC 120 V, 60 Hz
Power comsumption:	1.34 A (max.) 86 W (avg.)	0.94 A (max.), 53 W (avg.)
Horizontal resolution:	More than 600 lines	More than 500 lines
External input terminal:	Composite video: (2 inputs) BNC/8-pin connector; 1.0 Vp-p, bridged output possible R.G.B. analog: BNC, 0.7 Vp-p, bridged output possible R.G.B. TTL: 9-pin D sub connector Component video: (3 inputs) 12-pin connector (for MII) 12-pin connector (for BETACAM), BNC (for R-Y/B-Y/Y) 7 pin connection (for S-VHS)	Composite video: (2 inputs) BNC/8-pin connector; 1.0 Vp-p, bridged output possible R.G.B. analog: BNC; 0.7 Vp-p, bridged output possible Component video: (3 inputs) BNC (for R-Y/B-Y/Y) 12-pin connector (for MII) 12-pin connector (for BETACAM), Y/C 7 pin connection (for S-VHS)
Sync:	BNC; sync on green, 0.3 – 1.0 Vp-p, bridged output possible	BNC; 1 + 0.4 Vp-p, 75 ohms negative, bridged output possible
External dimensions:	449 (W) × 431 (H) × 478 (D) mm (17¾" × 17" × 18⅞")	360 (W) × 315 (H) × 410 (D) mm ($14^{3}/_{16}$" × $12^{7}/_{16}$" × $16^{3}/_{16}$")
Weight:	33.3 kg (73.3 lbs)	20.0 kg (9 lbs)

All model numbers, specifications and prices are subject to change without notice.

Broadcast Video Monitors

TM-R14U 14"





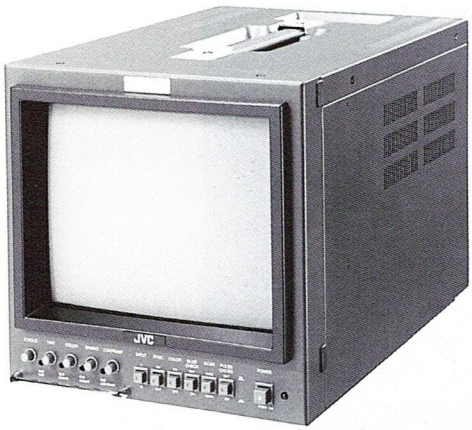
FEATURES

- 14"V (diagonally measured) CRT with dot pitch of 0.43 mm
- Two video input terminals (composite video)
- RGB analog input terminals
- External sync
- Underscan switch
- Color OFF swtich
- Blue check circuit
- Skew switch
- Degauss switch
- Tally lamp
- Notch/Comb filter eliminates interference to provide better picture quality
- EIA-standard rack mountable

SPECIFICATIONS

Type:	Color video monitor
Color system:	NTSC system
CRT:	14-inch (visual size/ diagonally measured) CRT with dot pitch of 0.43 mm
Power requirement:	AC 120 V, 60 Hz
Power consumption:	60W
Horizontal resolution:	More than 400 lines
Video input terminal:	2 inputs (BNC type) 1 Vp-p, 75 ohms negative sync or 0.7 Vp-p, 75 ohms positive Bridged connection possible
External sync signal input terrminal:	1 input (BNC type) 1.4 Vp-p, 75 ohms negative Briged connection possible
RGB input terminal:	1 input each (BNC type) analog, 0.7 Vp-p, 75 ohms positive Bridged connection possible Termination switch provided
Remote/tally terminal:	7-pin cannon connector
External dimensions:	360 (W) × 324 (H) × 410 (D) mm ($14^{3}/_{16}$" × $12^{3}/_{4}$" × $16^{1}/_{8}$")
Weight:	18.4 kg (40.5 lbs)

TM-R9U 9"



FEATURES

- 9"V (diagonally measured) FS CRT with stripe dot pitch of 0.47 mm
- Two video input terminals (composite video)
- External sync
- Underscan switch
- Color OFF switch
- Blue check circuit
- Pulse-cross circuit
- Skew switch
- Degauss switch
- Tally lamp
- Notch/Comb filter eliminates interference to provide better picture quality
- Two-way 120V AC or 12V/24V DC power operation
- EIA rack double-unit mountable with optional EIA rack

SPECIFICATIONS

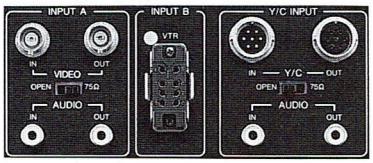
Type:	Color video monitor
Color system:	NTSC system
CRT:	9 inch (visual size/ diagonally measured) FS with stripe dot pitch of 0.47 mm
Power requirement :	AC 120V, 60 HZ, DC12V/24V
Power consumption:	33W (typical) for AC, 26 W (typical) for DC
Horizontal resolution:	More than 310 lines (at center)
Video input terminal:	2 inputs (BNC type) composite video signal 1.0 Vp-p, 75 ohms sync negative Bridged connection possible
External sync signal input terminal:	1 input (BNC type) 1 ~ 4 Vp-p, 75 ohms negative Bridged connection possible
Remote/tally terminal:	7 pin common connector
External dimensions:	223 (W) × 222 (H) × 348 (D) mm ($8^{13}/_{16}$" × $8^{3}/_{4}$" × $13^{5}/_{16}$")
Weight:	10.8 kg (23.9 lbs)

All model numbers, specifications and prices are subject to change without notice.

Color Video Monitors

TM-1400SU

14"



FEATURES

- Horizontal resolution of more than 450 lines
- 14"V (diagonally measured) FS (Full-Square) data-grade CRT with stripe pitch of 0.499 mm
- Y/C input for S-VHS
- 2 sets of composite video inputs (BNC/8-pin)
- Audio input (RCA) with built-in speaker
- Multiple professional function
  1) Under scan
  2) Pulse cross
  3) AFC select switch
  4) Color ON/OFF
  5) Blue check
- Mountable in an EIA rack with use of the optional rack mount adapter

TM-900SU

9"

FEATURES

- Horizontal resolution of more than 310 lines
- 9"V (diagonally measured) CRT with dot pitch of 0.47 mm
- 7-pin for S-VHS (Bridged out possible)
- Two sets of composite video inputs (A/B)
- Multiple professional functions:
  1) Under scan
  2) Pulse cross
  3) Color ON/OFF
  4) Blue check
  5) INT/EXT sync
- AC/DC selectable (DC12V, XLR 4-pin)
- Audio capability with built-in speaker
- Two units can be mounted side-by-side in an EIA rack with use of the optional RK-9U rack mount adapter

SPECIFICATIONS

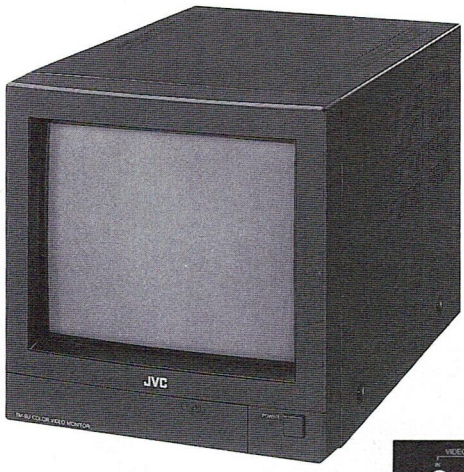
MODEL	TM-1400SU	TM-900SU
Type:	Color video monitor	←
Color system	NTSC	←
CRT:	14" (visual size/ diagonally measured) FS, data-grade, in line guns, dot pitch 0.499 mm	9" (visual size/ diagonally measured) FS, data-grade, in line guns, dot pitch 0.47 mm
Power requirement:	120 V AC, 60 Hz	←
Power consumption:	1.05 A (max) 60 W (svg)	T.B.A.
Audio output:	0.75 W	T.B.A.
Spoaker:	4.5 cm round × 1	8 cm round × 1
Composite video input:	A: BNC × 2 (1 for bridged output), 1.0 Vp-p, 75 ohms, termination switch provided B: VTR – 8-pin × 1, 1.0 Vp-p, 75 ohms	BNC × 2 (1 for bridged output), 10 Vp-p, 75 ohms, termination switch provided
Separated Y/C video input:	7-pin × 2 (1 for bridged output) Y 1.0 Vp-p, 75 ohms, positive C 0.286 Vp-p, 75 ohms	7-pin × 1 (1 for bridged output) Y 1.0 Vp-p, 75 ohms, positive C 0.286 Vp-p, 75 ohms
Audio input:	A: RCA × 2 (1 for bridged output) 390 mV rms (– 6 dBs) high impedance B: 8-pin × 1.775 mV rms (0 dBs)	RCA × 1 (1 for bridged output) 390 mV rms (– 6 dBs) high impedance
Dimensions:	360 (W) × 334.3 (H) × 393.3 (D) mm (15-9/16" × 13-3/16" × 15-1/2")	223 (W) × 227 (H) × 328 (D) mm (8-13/16" × 9" × 12-15/16")
Weight:	16 kg (35.6 lbs)	9 kg (19.9 lbs)

All model numbers, specifications and prices are subject to change without notice.

Color Video Monitors

TM-9U (A)

9"



FEATURES

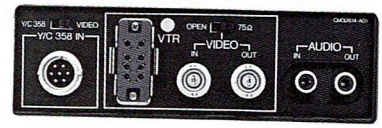
- **9"V (diagonally measured) with a stripe dot pitch of 0.47 mm**
- **Two TM-9U units are mountable in a EIA-19" stnadard rack**
- **Built-in audio speaker**
- **Sleek, space-saving design with scaled -down dimen sions**
- **Metal cabinet minimizes interference**

SPECIFICATIONS

Model	TM-9U (A)
Type:	Color video monitor
Colour system:	NTSC system
Power input:	AC 120 V, 60 Hz
Power consumption	47W (max.), 36W (avg.)
CRT dimensions:	9" (visual size, diagonally measured) FS CRT
Audio output:	1W
Speaker	3 1/8" (8 cm) round x 1
INPUT A terminal:	Video (BNC): 1.0 Vp-p, 75 ohms Audio (RCA): 390 mV rms (-6 dB), high impedance bridged output possible
Exterior dimensions:	223 (W) x 343 (D) x 227 (H) mm (8 4/5" x 13 1/2" x8 15/16")
Weight:	9.9 kg (21.8 lbs)

TM-91SU

9"



FEATURES

- **High-quality pictures designed for S-VHS systems**
- **Two TM-91U units can be mounted in an EIA-standard rack (adaptor optional)**
- **9"V (diagonally measured) CRT with a 0.47-mm dotpitch**
- **Video input terminals:**
  1) Composite (bridged-connection possible)
  2) Y/C separate video signals: 7-pin
  3) Audio input terminal: RCA (bridged-connection possible)
- **Built-in audio speaker**

SPECIFICATIONS

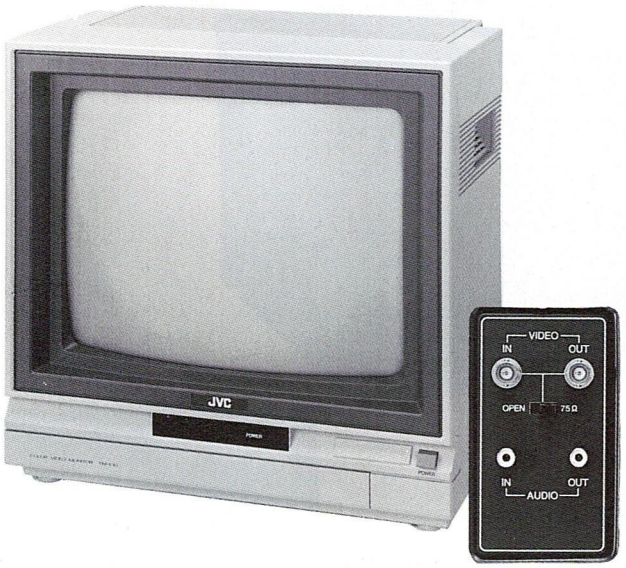
Type:	Color video monitor
Color system:	NTSC system
CRT:	9" (visual size/ diagonally measured), in-line gun-CRT, stripe-dot pitch 0.47 mm
Power requirement:	AC 120 V, 60 Hz
Power consumption:	0.63 A (max.), 37 W (avg.)
Horizontal resolution:	More than 300 LINES
External input terminals:	Video: BNC/1 Vp-p, 75 ohms, bridged output possible Audio: RCA; 390 mV rms (-6 dB), high impedance, bridged output possible Y/C 358: 7-pin
Audio output:	1 W
Speaker:	8 cm round x1
External dimensions:	223 (W) x 236 (H) x343 (D) mm (8-13/16" x 9-5/16" x 13-9/16")
Weight:	8.5 kg (18.7 lbs)

All model numbers, specifications and prices are subject to change without notice.

Color Video Monitors

TM-13U

13"



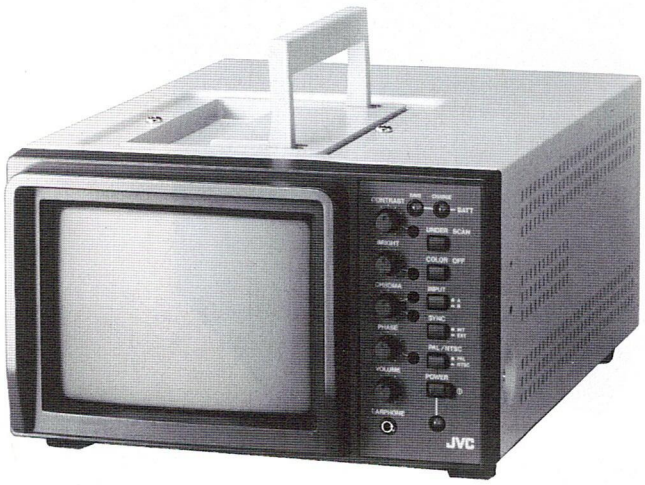
FEATURES

- One loop-through video/audio, input/output terminals enacting networking of several monitors or simple playback
- Versatile applications such as education, training, demonstration/sales promortion, etc.
- Controls allow for adjustment of tint, color, bright, contrast, H. position and V. hold

SPECIFICATIONS

Model	TM-13U
Type:	Color video monitor
Colour system:	NTSC system
Power input:	AC 120 V, 60 Hz
Power consumption	MAX. 108W, AVG. 82 W
CRT dimensions:	13" (visual size, diagonally measured)
Audio output:	1.2W
Speaker	4" (10 cm) round type × 1
INPUT A terminal:	Video terminal (BNC-type) × 1 Signal level/ 1.0 Vp-p, 75 ohms, bridged output possible Audio terminal (RCA-type) ×1 Signal level/ 390 mV rms (-6 dB), high impedance, bridged output possible
Exterior dimensions:	373 (W) × 409 (D) × 363 (H) mm (14 3/4" × 16 1/8" ×14 3/8") including legs
Weight:	11.2 kg (24.7 lbs)

TM-550U



FEATURES

- Accepts NTSC and PAL colour picture signals
- Multi-power source operation:
  - * AC 100~240V, 50/60Hz
  - * Integrated battery pack, slot accepts JVC NB-G1 and NP-1B type batteries
  - * 12V DC input connector for other battery systems
- Unique built-in battery re-charge capability (NB-G1, NP-1B)
- Battery save mode-detects when no video input is preserved
- 3-H rack mountable
- Heavy-duty metal cabinet
- Earphone jack
- Underscan mode
- Colour off switches

SPECIFICATIONS

Model*	TM-550U
OCRT	6" (15 cm), vertical stripe phosphor of 0.42mm
Colour system	NTSC, PAL
Colour temperature	6500°K
Input signals: Input A/B Video input:	BNC × 2: Composite video signal; 1.0Vp-p, 75 ohms, sync negative, bridged out
Audio input:	RCA × 2: 390mVrms, high impedance, bridged out
Ext. Sync In	BNC × 2: 0.3Vp-p, 75 ohms, bridged out possible
Features	Under scan, Colour off, Battery charge, Battery save switch
Rack mount	Dual mount for EIA 19" (48cm) rack
Cabinet	Metal
Speaker	0.5W, 8cm diameter speaker, Earphone out provided
Power requirement	AC: 100-240 V AC, 50/60 Hz, auto detection DC: 12 V DC DC input connector: 4-pin XLR Battery pack: JVC NB-G1 or NP-1B type
Dimensions (W × H × D)	220 × 136 × 329 mm

All model numbers, specifications and prices are subject to change without notice.

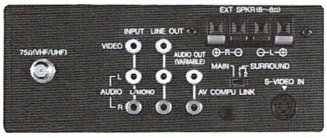
Color Video Monitor

TM-3151SU

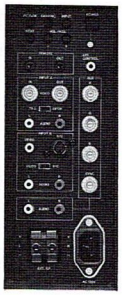
31"

FEATURES

- 31-inch (33-inch visible, measured diagonally) FS (Full-Square) CRT
- Horizontal resolution of more than 700 lines
- Wide-band comb filter for improved picture quality
- A/V input, line output and variable audio output
- Video noise reduction circuitry
- Notch filter to eliminate dot interference
- JVC MASTER COMMAND AI remote control
- AV COMPU LINK compatible
- Matrix Surround sound system
- Automatic degauss
- Available in U.S.A. only



TM-270SU



FEATURES

- Designed and developed for presentation use
- Superior-quality pictures (horizontal resolution 700 TV lines)
- 27" V (diagonally measured) super flat, date-grade CRT
- Video input terminals:
  1) Input A
     a) BNC terminal for Composite video signal, bridged output possible
     b) RCA terminal: for audio signal L-R)
  2) Input B
     a) RCA terminal for Composite video signal
     b) 4-pin Y/C terminal for S-VHS
     c) RCA terminal: for audio signal (L-R)
  3) RGB IN
     a) BNC terminal for RGB analog signal
     b) RCA terminal: for audio signal L-R)
- Multi-functional remote control
  1) Switches input sources
  2) On screen picture adjustment

  1 remote controller can adjust White Balance. Brightness, Contrast, Color. Tint, Sharpness and so on of some TM-270SU monitors connected each other by remote control wires.
- Built-in Color Graphic Generator: 21 patterns (including no graphic single color pattern) with 8 colors: operates automatically when monitor detects no sync is preserved
- Built-in audio amplifier

SPECIFICATIONS

Type: Color video monitor/receiver	
Reception system: NTSC system, BTSC system (Multichannel sound)	
Channel coverage:	VHF 2–13, UHF 14-69: Sub-Mid, Mid, Super, Hyper and Ultra bands (180-channel frequency synthesizer system)
Power requirement: 120 V AC, 60 Hz	
Power consumption: MAX. 160 W, AVG. 110 W	
Screen size: 31" (visual size, diagonally measured). Full Square	
Horizontal resolution: More than 700 lines	
Audio output: 3 W + 3 W	
Speakers: 3-3/16" × 4.3/4" (8 × 12 cm) oval × 2	
Antenna input terminal: 75 ohm (VHF/UHF) terminal (F-type connector)	
External input terminals: (RCA)	Video: 1 Vp-p, 75 ohms Audio: 500 mV rms (–4 dBs), high impedance
Line output terminals: (RCA)	Video: 1 Vp-p, 75 ohms Audio: 500 mV rms (–4 dBs), low impedance (400 Hz when modulated 100%)
S-VIDEO IN terminal: (4-pin)	Y: 1 Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal). 75 ohms
Variable audio output terminals:	More than 0 – 1550 mV rms (+6 dBs), low impedance (400 Hz when modulated 100%)
External speaker terminals: Impedance 6 – 8 ohms	
Weight: 121.2 lbs (55.4 kg)	
Accessories:	Remote control unit (RM-C424) × 1, AA size dry cell battery × 2, BNC adapter (BNC female to RCA male) × 1

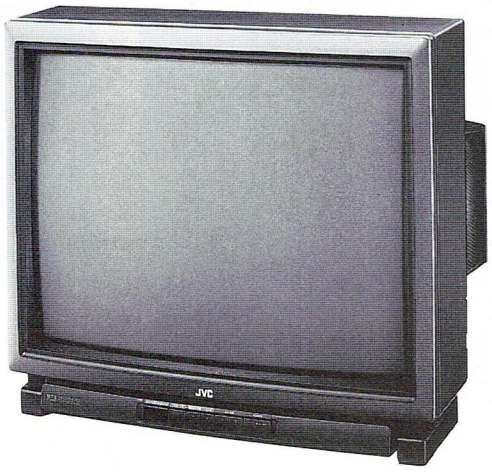
SPECIFICATIONS

Type: Color video monitor	
Colour system: NTSC system	
CRT: 27" (visual size/diagonally measured) Flat Square, data-grade CRT 110° deflection	
Power requirement: AC 120V, 60Hz	
Power consumption: 1.7 A (max.), 105 W (avg.)	
Horizontal resolution: 700 TV lines	
External terminals:	
Input A:	Video: BNC × 2/1 Vp-p, 75 ohms, bridged output possible Audio: RCA × 2 (L-R)/390 mV rms (-6 dB), high impedance
Input B:	Video: RCA × 1/1 Vp-p, 75 ohms : 4-pin Y/C × 1/Y : 1 Vp-p, 75 ohms C : 0.286 Vp-p (burst), 75 ohms Audio: RCA × 2 (L-R)/390 mV rms, high impedance
RGB IN:	R/G/B/Sync: BNC × 4, analog R/G/B : 0.7Vp-p. 75 ohms Sync : 0.3 - 4.0 Vp-p, 75 ohms Audio: RCA x 2 (L-R)/390 mV rms, high impedance
Audio output terminal: 10W + 10W, 8 ohms (external speaker)	
Remote controller terminal: IN/OUT	
External dimensions: 638 (W) × 508 (H) × 495 (D)	
Weight: 43.7 kg	

All model numbers, specifications and prices are subject to change without notice.

Stereo Color Monitors/Receivers

TM-2760SU 27"



FEATURES

- Horizontal resolution of more than 600 lines
- 27"V (diagonally measured) FS (Full Square) CRT
- Y/C input (4-pin) terminal for S-VHS
- 180 channel frequency synthesizer tuner for direct cable reception of Mid, Sub-Mid, Super, Hyper and Ultra bands, plus auto channel programming function
- Built-in MTS/SAP decorder with stereo amp
- Matrix Surround sound capability
- A/V input, line output, and variable audio output terminals, plus external speaker terminals (BNC adapter provided)
- JVC MASTER COMMAND remote control
- Available in U.S.A. only

TM-2080SU 20"

FEATURES

- Horizontal resolution of more than 400 lines
- 20"V (diagonally measured) FS (Full Square) CRT
- Y/C input (4-pin) terminal for S-VHS
- 180 channel frequency synthesizer tuner for direct cable reception of Mid, Sub-Mid, Super, Hyper and Ultra bands, plus auto channel programming function
- Built-in MTS/SAP decorder with stereo amp
- Matrix Surround sound capability
- A/V input, line output, and variable audio output terminals, plus external speaker terminals (BNC adapter provided)
- JVC MASTER COMMAND remote control 0071
- Available in U.S.A. only

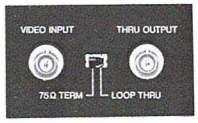
SPECIFICATIONS

Model	TM-2760SU	TM-2080SU
Type	Color monitor/receiver	←
Reception system	NTSC system, BTSC system (Multichannel sound)	←
Channel coverage	VHF 2 – 13, UHF 14 – 69: Sub-Mid, Mid, Super, Hyper and Ultra bands (180-channel frequency synthesizer system)	←
Power requirement	120 V AC, 60 Hz	←
Power consumption	Max. 147 W, Avg 103 W	Max. 110 W, Avg 80 W
Screen size	27" (visual size, diagonally measured), Full Square	20" (visual size, diagonally measured), Full Square
Horizontal resolution	More than 600 TV lines	More than 400 TV lines
Audio output	3 W + 3 W	2.2 W + 2.2 W
Speakers	3-3/16" × 4-3/4" elipse × 2	3-3/16" × 4-3/4" elipse × 2
Antenna input terminal	75 ohm (VHF/UHF) terminal (F-type connector)	←
External Input terminals (RCA)	Video: 1 Vp-p, 75 ohms Audio: 500 mV rms (– 4 dBs), high impedance	←
Line output terminals (RCA)	Video: 1 Vp-p, 75 ohms Audio: 500 mV rms (– 4 dBs), low impedance (400 Hz when modulated 100%)	←
S-VIDEO IN terminal (4-pin)	Y: 1 Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms	←
Variable audio output terminals	More than 0 – 1550 mV rms (+ 6 dBs), low impedance (400 Hz when modulated 100%)	More than 0 – 1000 mV rms (+ 2.2 dBs), low impedance (400 Hz when modulated 100%)
External speaker terminals	Impedance 6 – 8 ohms	Impedance 8 ohms
Weight	83.1 lbs	49.7 lbs
Accessorles	Remote control unit (RM-C424) × 1, AA size dry celle battery × 2, BNC adapter (BNC female to RCA male) × 1	←

All model numbers, specifications and prices are subject to change without notice.

B & W Monitors

TM-920U

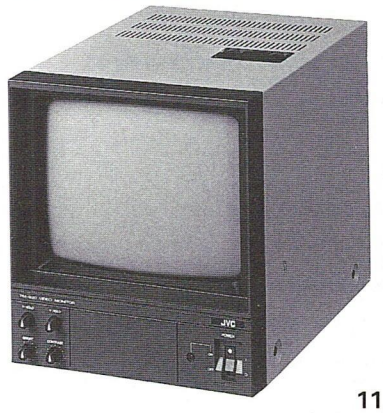


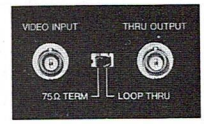
8.5" VIDEO MONITOR

FEATURES

- Horizontal resolution of more than 900 lines (at center)
- Loop-through output terminal for connection of another video monitor
- Two units can be mounted together in a standard EIA 19" rack (using the optional UC-P1006U rack mount adapter)

TM-122U





11.5" VIDEO MONITOR

FEATURES

- Horizontal resolution of more than 900 lines (at center)
- Loop-through output terminal for connection of another video monitor
- Can be mounted in a standard EIA 19" rack (using the option UC-P2007U rack mount adapter)

SPECIFICATIONS

Model	TM-920U	TM-122U
Picture tube	8.5", 90° deflection (230BTB4)	11.5", 90° deflection (320ATB4)
Horizontal resolution	More than 900 lines (center)	←
Scanning frequencies	Horizontal: 15.75 kHz, Vertical: 60 Hz	←
Input	Video × 1: VS, 1 Vp-p, 75 ohms (BNC)	←
Output (looped-through)	Video × 1: VS, 1 Vp-p, 75 ohms (BNC)	←
S/N ratio	More than 55 dB	←
Video frequency response	15 kHz to 11 MHz, ±2 dB	←
Sweep lineanty	Less than 7 %	←
Power supply	120 V AC, 50/60 Hz	←
Power consumption	Approx. 29 W	Approx. 33 W
Ambient temperature range	−10 to +40°C (14 to 104°F)	←
Dimensions	220 (W) × 248 (H) × 312 (D) mm (8-3/4" × 9-7/8" × 12-3/8")	300 (W) × 308 (H) × 332 (D) mm (11-7/8" × 12-1/8" × 13-1/16")
Weight	Approx. 6.3 kg (13.9 lbs.)	Approx. 9.4 kg (20.7 lbs.)

All model numbers, specifications and prices are subject to change without notice.

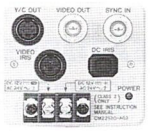
CCD Color Video Camera

TK-1280U

FEATURES

- One 1/2" CCD 768 (H) × 494 (V) with mosaic color filter (Ye-Cy-Mg-Gr)
- Horizontal resolution of more than 470 TV lines
- Minimum required illumination of 1.5 lux
- High S/N ration of 50 dB (AGC off)
- Two kinds of video outputs
  1) Composite video (BNC)
  2) Y/C separated video (4-pin)
- Synchronization system
  INT/EXT (VBS or BB)/AC Line Lock (AC 24V, 60Hz)
- Iris system
  1) Video Iris
  2) DC Iris
  3) Automatic Electronic Shutter Speed Control (AES)
- 9 modes of electronic shutter
  (1/60, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 sec.)
- AES range
  Linear from 1/60 through 1/20000 second
- White balance adjustment
  1) TTL Auto: (2.850°K~7.000°K)
  2) Manual Control: (2.850°K~7.000°K)
  3) Pre-Set (Indoor): 3.200°K
- Other features
  1) CS/C (with an adapter) lens mount
  2) Back light compensation (on/off)

CONNECTORS



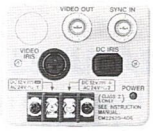
shown with optional lens

TK-1180U

FEATURES

- One 1/3" CCD 510 (H) × 492 (V) with mosaic color filter (Ye-Cy-Mg-Gr)
- Horizontal resolution of more than 330 TV lines
- Minimum required illumination of 2 lux
- High S/N ration of 47 dB (AGC off)
- Video output
  Composite video (BNC)
- Synchronization system
  INT/EXT (VBS or BB)/AC Line Lock (AC 24V, 60Hz)
- Iris system
  1) Video Iris
  2) DC Iris
  3) Automatic Electronic Shutter Speed Control (AES)
- 9 modes of electronic shutter
  (1/60, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 sec.)
- AES range
  Linear from 1/60 through 1/20000 second
- White balance adjustment
  1) TTL Auto: (2.850°K~7.000°K)
  2) Manual Control: (2.850°K~7.000°K)
  3) Pre-Set (Indoor): 3.200°K
- Other features
  1) CS/C (with an adapter) lens mount
  2) Back light compensation (on/off)

CONNECTORS



shown with optional lens

SPECIFICATIONS

Olmage device (Ye-Cy-Mg-Gr)	1/2" CCD with mosaic color filter
Effective picture element	768 (H) × 494 (V)
Sync system	INT/EXT (VBS or BB)/AC Line Lock
Video output	Composite Video: 1.0 Vp-p 75 ohm
	Y/C Separated Video Y: 1.0 Vp-p 75 ohm C: 0.286 Vp-p 75 ohm
Video S/N	50 dB (AGC off)
Horizontal resolution	470 TV Lines
Minimum required illumination	1.5 Lux
Electronic shutter	1/60, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 sec.
Iris control	Video Iris: 0.7 Vp-p 1K ohm, hi-impedance 9.0 V DC, 50 mA DC Iris: Open to close less than 0.5V Close to open more than 4V (20mA) AES: Linear from 1/60, through 1/20000 sec.
White balance	TTL Auto (2.850°K~7.000°K) Manual Adjustment (2.850°K—7.000°K under 2 peculier axes system) Pre-set Indoor (3200°K)
Lens mount	CS/C (with adapter)
AGC	OFF/ON (0~+18dB)
Power requirement	DC 11.5 V~DC 35 V AC 24 V ±10%

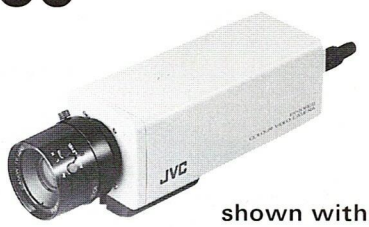
SPECIFICATIONS

Olmage device	1/3" CCD with mosaic color filter (Ye-Cy-Mg-Gr)
Effective picture element	510 (H) X 492 (V)
Sync system	INT/EXT (VBS or BB)/AC Line Lock
Video output	Composite Video: 1.0 Vp-p 75 ohm
Video S/N	47 dB (1.000 Lux. AGC off)
Horizontal resolution	330 TV Lines
Minimum required illumination	2 Lux
Electronic shutter 1/4000, 1/10000 sec.	1/60, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000,
Iris control	Video Iris: 0.7 Vp-p 1K ohm, hi-impedance 9.0 V DC, 50mA DC Iris: Open to close less than 0.5V Close to open more than 4V (20mA) AES: Linear from 1/60, through 1/2000 sec.
White balance	TTL Auto (2.850°K~7.000°K) Manual Adjustment (2.850°K—7.000°K under 2 peculiar axes system) Pre-set Indoor (3200°K)
Lens mount	CS/C (with adapter)
AGC	OFF/ON (0~+18 dB)
Power requirement	DC 11.5 V~DC 35 V AC 24 V ± 10%

All model numbers, specifications and prices are subject to change without notice.

CCD Color Video Cameras

TK-1080U



shown with optional lens

FEATURES

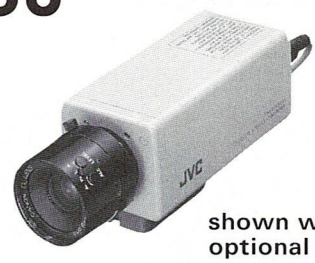
- 1/2" CCD with 682(H) × 492(V) elements and mosaic color filter (Ye-Cy-Mg-Gr)
- Horizontal resolution of more than 420 TV lines
- High S/N ratio of 48 dB (AGC-OFF)
- Multi-sync system: INT/EXT (VBS or BB)/AC Line Lock(24V AC, 60 Hz)
- Minimum required illumination of 7 lux (F1.4, 89.9% reflection, 50 IRE)
- 4 modes of electronic shutter: 1/60, 1/250, 1/500, 1/1000 sec.
- Two kinds of video outputs
  1) Composite video (BNC)
  2) Y/C Separated video (4-pin)
- White balance adjustment:
  1) TTL (through the lens) Auto: 2850°K-7000°K
  2) Fluorescent light
  3) Sunlight
  4) Manual: two color axes (Gr-Mg, B-R)
- CS-Mount/C-Mount capability
- Dual voltage operation: 24V AC or 12V DC (The optional AC adpter AC-C612 available)

SPECIFICATIONS

TYPE	Color video camera head
Signal system	Based on NTSC standard
Pickup element	Interline-transfer system CCD solid-state image sensor
Pickup color system	Single CCD complementary color system
No. of effective pixels	682(H) × 492(V)
Imaging area	6.4(H) × 4.8(V)mm
Scanning lines	525 lines, 2:1 interlaced
Scanning frequency	(H) 15.734kHz (V) 59.94 Hz
Sync system	internal/external
Video output	Composite video signal: 1 Vp-p, 75 ohms, unbalanced Separated Y/C video signals: Y; 1 Vp-p, 75 ohms, unbalanced C; 0.286 Vp-p (burst), 75 ohms, unbalanced
Video S/N	48 dB (2000 lux, AGC switch set to "OFF", at weighting)
Horizontal Resolution	420 TV lines (composite video)
Minimum required illumination	7 lux (F1.4, AGC switch set to "ON", 89.9% reflection, 50 IRE)
Recommended illumination	2000 lux
AGC	OFF/ON (Max +20dB)
Electronic shutter	1/60 (NOR), 1/250, 1/500, 1/1000
White balance	• TTL Auto (2850°K ~ 7000°K) • Fluorescent light • Sunlight • Manual (2 color axes, Gr-Mg, B-R)
Adjusting function	Flange-back, manual white balance (2 axes; G-Mg, B-R)
Lens mount	C mount (with C-mount adapter)/CS mount (without C-mount adapter)
Power requirement	24V AC or 12V DC
Power consumption	T.B.A.
Operating temperature range	-10°C to +50°C
Operating humidity	Less than 90% Rh (noncondensing)
Dimension	62.5(W) x 65(H) x 170(D)mm (2-1/2" x 2-9/16" x 6-3/4")
Weight	T.B.A.

All model numbers, specifications and prices are subject to change without notice.

TK-1085U



shown with optional lens

FEATURES

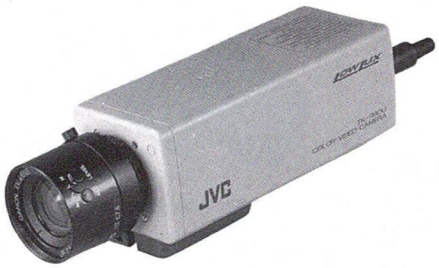
- 1/2" CCD with 682 (H) × 492 (V) elements and mosaic color filter (Ye-Cy-Mg-Gr)
- Horizontal resolution of 420 TV lines
- High S/N ratio of 48 dB (AGC-OFF)
- Minimum required illumination of 7 lux (F1.4, 89.9% reflection, 50 IRE)
- 4 modes electronic shutter: 1/60, 1/250, 1/500, 1/1000 sec.
- Two kinds of video outputs
  1) Composite video (BNC)
  2) Y/C Separated video (4-pin)
- White balance adjustment:
  1) TTL (through the lens) Auto: 2850°K-7000°K
  2) Fluorescent light
  3) Sunlight
  4) Manual: two color axes (Gr-Mg, B-R)
- CS-Mount/C-Mount capability
- Dual voltage operation: 24V AC or 12V DC (The optional AC adpter AC-C612 available)

SPECIFICATIONS

TYPE	Color video camera head
Signal system	Based on NTSC standard
Pickup element	Interline-transfer system CCD solid-state image sensor
Pickup color system	Single CCD complementary color system
No. of effective pixels	682(H) × 492(V)
Imaging area	6.4(H) × 4.8(V)mm
Scanning lines	525 lines, 2:1 interlaced
Scanning frequency	(H) 15.734kHz (V) 59.94 Hz
Sync system	internal
Video output	Composite video signal: 1 Vp-p, 75 ohms, unbalanced Separated Y/C video signals: Y; 1 Vp-p, 75 ohms, unbalanced C; 0.286 Vp-p (burst), 75 ohms, unbalanced
Video S/N	48 dB (2000 lux, AGC switch set to "OFF", at weighting)
Horizontal Resolution	420 TV lines (composite video)
Minimum required illumination	7 lux (F1.4, AGC switch set to "ON", 89.9% reflection, 50 IRE)
Recommended illumination	2000 lux
AGC	OFF/ON (Max +20dB)
Electronic shutter	1/60 (NOR), 1/250, 1/500, 1/1000
White balance	• TTL Auto (2850°K ~ 7000°K) • Fluorescent light • Sunlight • Manual (2 color axes, Gr-Mg, B-R)
Adjusting function	Flange-back, manual white balance (2 axes; G-Mg, B-R)
Lens mount	C mount (with C-mount adapter)/CS mount (without C-mount adapter)
Power requirement	DC 12V (±10%)
Power consumption	3.5W (DC 12V, without lens)
Operating temperature range	– 10°C to +50°C
Operating humidity	Less than 90% Rh (noncondensing)
Maximum external dimensions	63 (W) × 67 (H) × 146 (D)mm (2-5/8" x 2-3/4" x 6-8/5")
Weight	Approx. 510g

CCD Color Video Camera

TK-980U



shown with optional lens

FEATURES

- 1/2" CCD with 512 (H) ¥ 492 (V) elements and mosaic color filter (Ye-Cy-Mg-Gr)
- Horizontal resolution of more than 330 TV lines
- High S/N ratio of 47 dB (AGC-OFF)
- Multi-sync system: INT/EXT (VBS or BB) AC Line Lock (24V AC, 60 Hz)
- Minimum required illumination of 2.5 lux (89.9% reflection, F1.2, 50 IRE, AGC on)
- 4 modes of electronic shutter: 1/60, 1/100, 1/1000 sec.
- White balance adjustment:
  1) TTL (through the lens) Auto: 2850°K – 7000°K
  2) Fluorescent light
  3) Sunlight
  4) Manual: two color axes (GR-Mg, B-r)
- CS–Mount/C–Mount capability
- Dual voltage operation: 24V AC or 12V DC (The optional AD adapter AC-C612 available)

SPECIFICATIONS

Image device: 1/2" CCD with mosaic color filter
Ye-Cy-Mg-Gr)
Effective picture elements: 512(H) × 492(V)
Sync system: INT/EXT (VBS or BB)/AC Line Lock
Video output: Composite Video: 1.0 Vp-p, 75 ohms
Video S/N: 47 dB (2000 Lux, AGC off)
Horizontal resolution: 330 TV lines
Minimum required illumination: 2.5 Lux (89.9% reflection, F1.2, 50 IRE, AGC on)
AGC: OFF/ON (Max +20dB)
Electronic shutter: 1/60, 1/100, 1/1000 sec.
White balance: • TTL Auto (2850°K~7000°K
• Fluorescent light
• Sunlight
• Manual (2 color axes, Gr-Mg, B-r)
Lens mount: CS/C (with adapter)
Power consumption: 24V AC or 12V DC
Dimension: 62.5(W) × 65(H) × 170(D)mm
(2-12" × 2-9/16" × 6-3/4")

TK-885U

shown with optional lens

FEATURES

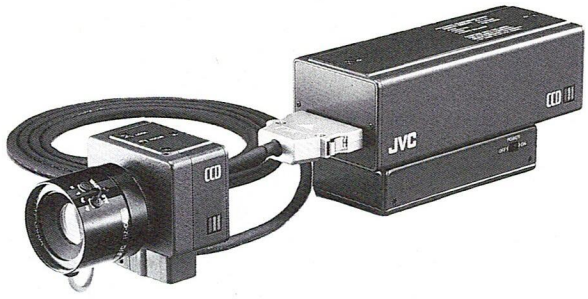
- 1/2" CCD image sensor
- 330 TV lines of horizontal resolution
- Low-light sensitivity of 10 Lux
- S/N ratio of 47 dB
- 1/1200 second high-speed electronic shutter
- TTL auto white balance adjustment
- AGC
- CS-Mount/C-Mount
- Auto iris terminal provided (9.5 V, 50 mA)
- 120V AC source (with optional AC-C612 AC Adaptor)
- Operating temperature of – 10°C to +50°C
- Lightweight: approximately 1 lbs.
- 12V DC operation only

SPECIFICATIONS

Image Type: Color video camera
Signal system: Based on NTSC standard
Pick-up device: Single 1/2" CCD (complementary color filter provided)
No. of effective pixels: 510 (H) ¥ 492 (V)
Pick-up area (equivalent to 1/2" format): 4.6 (V) × 6.2 (H) mm
Scanning: 525 lines, 2 : 1 interlaced
Video output: BNC connector
Composite video signal 1.0 Vp-p 75 ohms, unbalanced
Video S/N: 47 dB (Y signal)
Horizontal resolution: 330 TV lines
Minimum required illumination: 10 Lux
Color temperature setting: TTL Auto tracking
Indoor/Outdoor/Auto (3 way switch)
Lens mount: CS/C mount
Shutter: Switchable (1/60 second) and (1/1200 second)
Switching function: AGC (ON, OFF), shutter mode (NORM, 1,1200), white balance mode ( ), line-lock (sync) mode
Power source:
DC12V± 10%, ripple max 50mV
Power consumption: 3.5W (DC 12V)
Operating temperature range: – 10°C to 50°C
Operating humidity: 90% or less
DimensionL 2-9/16" (64 mm)
Height Approx. 2-7/16 (62 mm) including triped base
Depth Approx. 6" (150 mm) including C-mount and Cable Cip
Weight: Approx 1.1 lbs (500g)

All model numbers, specifications and prices are subject to change without notice.

TK-900U Color CCD Video Camera



with the AC-C612
AC Adaptor (Optional)

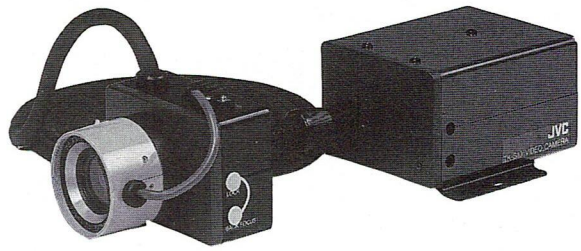
FEATURES

- ½" CCD with 510 (H) × 492 (V)
- 330 lines of horizotal resolution
- S/N ratio of 46dB
- Ultra-compact and light weight
- Camera head weight only 0.82 lb. (370g)
- CS-Mount/C-Mount
- High Sensitivity in Low Light Conditions: Minimum sensitivity of 10 lux
- TTL Auto white ballance
- 1/1200-second high-speed electronic shutter
- Wide application range for Security Surveillace systems. Video Microscope systems

SPECIFICATIONS

Type	Color Video Camera Head (two-piece type)
Signal system	Based on NTSC
Pick-up element	Interline-transfer system 1/2" CCD
No. of effective pixels	510(H) × 492 (V)
Scanning lines	525 lines, 2:1 interlaced
Scanning frequency	(H) 15.734 kHz (V) 59.94 Hz
Sync system	Internal/External (Automatic)
Sync input	Composite video signal (VBS)/1.0 Vp-p, 75 ohms, terminated (or Black Burst Signal (BB)), BNC connector
Video output	Composite video signal/1.0 Vp-p, 75 ohms, unbalanced, BNC connector
Video S/N	46 dB (nominal)
Horizontal resolution	330 TV lines
Minimum required illumination	10 lux (F1.4)
Recommended subject illumination	2,000 lux
Switching function	AGC (ON/OFF), shutter mode (NORM, 1/1200), white balance mode
Adjusting function	Flange-back, tint, horizontal phase, color sub-carrier phase
Lens mount	C mount (with C-mount adaptor)/CS mount (without C-mount adaptor)
Power requirement	DC 12 V (±10%), ripple voltage, 50 mV or less, AC 24 V (±10%), 60 Hz
Operating temperature range	−10°C ~ +50°C
Operating humidity	Less than 90% Rh (noncondensing)
Weight	HEAD/Approx. 370 g (including C-mount adaptor), BODY/Approx. 530g
Dimensions: Head W × H × D CCU W × H × D	 64 × 67 × 42 (2-9/16" × 2-12/16" × 1-11/16") 64 × 62 × Approx. 162 (2-9/16" × 2-7/16" × 6-7/16")
Cable length	Approx. 78-3/4"

TK-S10U B/ W CCD Video Camera



Shown with
optional lens

FEATRUES

- Compact camera head: 76 (W) × 70 (H) × 33.5 (D) mm
  (3 (W) × 2-11/16 (H) × 1-3/8 (D) inches)
- 1/2 inch IT (Inetrline Transfer) CCD with 512(H) × 492(V) elements
- Horizontal resolution of 380 TV lines
- High S/N ratio of 50 dB (AGC-OFF)
- Excellent sensitivity of 0.3 lux (F1.4 lens, usable picture)
- CS-Mount/C-Mount
- 24V AC power supply and low power consumption: 3 W
- No lag or no image retention
- No geometric distortion
- Optimum to be assembled in an 8-inch decoration dome

SPECIFICATIONS

Image device	1/2" IT CCD
Effective picture elements	512(H) × 492(V)
Scanning	2: 1 interlaced
Frequency	15.75 kHz(H), 60 Hz(V), EIA standard
Synchronization	Line lock, internal lock or external lock (Sync)
Horizontal resolution	380 TV lines
S/N ratio	50 dB
Minimum illumination	0.03 fc, 0.3 lux (F1.4 lens, usable picture)
Video signal output	1.0 Vp-p (Video with sync), 75 ohms, BNC
EE lens output	0.7 Vp-p (Video), DC +9 V, screw terminal
External sync signal input	Composite sync (0.3 -4 Vp-p), Composite video (1.0 Vp-p), 75 ohms, BNC
Lens mount	C or CS mount
Power consumption	3 W, 24 V AC, 60 Hz
AGC	24 dB
Maximum cable length	2 m (Head to CCU)

All model numbers, specifications and prices are subject to change without notice.

1/2" CCD B/W Video Cameras

TK-S400U

shown with optional lens

FEATURES

- 1/2 inch IT (Inetrline Transfer) CCD with 512 (H) × 492 (V) elements
- Horizontal resolution of 380 TV lines
- High S/N ratio of 50 dB (AGC-OFF)
- Excellent sensitivity of 0.3 lux (F1.4 lens, usable picture)
- CS-Mount/C-Mount
- 12V DC power supply and low power consumption (2 W)
- 12V DC power can be supplied by a car battery, for mounting in a car
- No lag or no image retention
- No geometric distortion

TK-S300U

shown with optional lens

FEATURES

- High quality CCD imaging of high sesitivity: Minimum practical Illumination of 0.3 lux.
- Horizontal resolution of 380 TV lines
- Built-in contour and AGC circuit for sharp distortion-free pictures under low light conditions
- Solid-state reliability in compact size (30% smaller than previous models)
- Multiple applications and flexibility. Sync switchable between internal/external lock
- C-mount lens

TK-S200U

shown with optional lens

FEATURES

- High quality CCD imaging of high sesitivity: Minimum practical illumination of 0.3 lux.
- Horizontal resolution of 380 TV lines
- Built-in contour and AGC circuit for sharp distortionfree pictures under low light conditions
- Solid-state reliability in compact size (30% smaller than previous models)
- Multiple applications and flexibility. Sync switchable between internal/external lock
- C-mount lens

SPECIFICATIONS

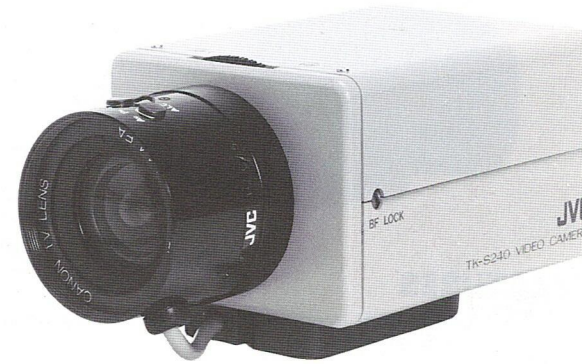
Model	TK-S400U	TK-S300U	TK-S200U
Pick up device	1/2" IT CCD	←	←
Picture elements	512 (H) × 492 (W)	←	←
Scaning system	525 lines 2:1 interlace	←	←
Frequency	15.734 kHz (H), 59.94 Hz (V), EIA STANDARD	←	←
Sync system	Internal, External lock (sync)	Internal, External or line lock	←
Genlock Input	VS or VBs 1.0 Vp-p, BBS 0.43 Vp-p, Sync 4.0 Vp-p	←	←
Video Output	1.0 Vp-p (V)	←	1.0 Vp-p (VS)
Resolution	380 TV lines (horizontal)	←	←
Signal to noise ratio	50 dB (2000 Lux F11)	←	←
AGC range	20 dB	←	←
Illumination (2860°K, F1.4)	Usable video 0.3 lux, full video video 2 lux	←	← (2850°K, F1.4)
Lens mount	C or CS mount	C-mount back focus adjustment mechanism built in	←
Power requirement	12V DC	120V AC	←
Power consumption	2W	3.5W	←
Ambient temperature	-10°C to +50°C	←	←
Dimensions	76 (W) × 65 (H) × 114 (D) mm	76 (W) × 65 (H) × 114 (D) mm	76 (W) × 65 (H) × 119 (D) mm
Weight (without lens)	T.B.A.	660g	←

1/3" CCD B/W Video Camera

TK-S240U

FEATURES

- The 1/3" CCD image pick-up delivers 380 lines of harizontal resolution, and is supported by buit-in contour and AGC circuits for sharp pictures at just 0.3 lux.
- High-sensitivity, low after-image and low geometric distortion make the TK-S240U ideal where high quality images are required.
- The camera accepts 24V AC or 12V DC for easy installation in various systems.
- Simply flip a switch to select internal, external or power synchronization (requires 60Hz AC power). This makes system integration even easier.
- The electronic shutter speed of 1/100 prevents flicker from fluorescent lights when used in countries with 50Hz power.
- The automatic electronic shutter continuously adjusts the shutter speed to give the correct exposure even when a manual iris or a lens without an iris is used.
- Built-in back-light compensation function inproves image quality when shooting back-lit subjects.
- Either C-mount or CS-mount lens can be attached to the camera whit the lens mount change function.



shown with optional lens

SPECIFICATIONS

Imege sensor	Interline-transger CCD
Number of effective pixels	250,000; 512(H) x 492(V)
Image size	1/3 inch
Synchronization method	External internal, and power synchroniza-tion (60Hz AC power only)
Scanning frequency	(H) 15.734kHz (V) 59.94Hz
Resolution	380 TV lines (horizontal)
Video S/N ratio	50dB
Minimum required illumination	0.3 lux (F/1.4)
Lens mount	C/CS mount
Power supply	24V AC, 50/60Hz; 12V DC
Power consumption	3W
Operating temperature range	–10°C to +50°C (Recommended temperature range: 0°C to +40°C)
Weight	410g (0.91lbs.)

All model numbers, specifications and prices are subject to change without notice.

CCD/Tube B&W Video Cameras

TK-S100U

shown with optional lens

FEATURES

- High quality CCD imaging of high sesitivity: Minimum practical Illumination of 0.3 lux.
- Horizontal resolution of 380 TV lines
- Built-in contour and AGC circuit for sharp distortion-free pictures under low light conditions
- Solid-state reliability in compact size (30% smaller than previous models)
- Multiplexing system feeds pictures, power and sync through a single coaxial cable
- C-mount lens
- Power requirement: 13.5 ~ 21 V DC
- Power comsumption: 2.1W (at 21V)
- Dimensions: 76 (W) × 65 (H) × 119 (D) mm
- Weight (without lens): 370 g

TK-10U

(with provided lens HZ-F8161)

FEATURES

- 2/3" separate-mesh vidicon tube, with resolution of more than 550 TV lines.
- Multiplexed transmission of video signal, sync signal and power supply via single coaxial cable (TM-9010U or TM-9060U system monitor is necessary to drive the camera)
- Compact and lightweight
- Extended up to 500 m (1,640 ft.) when 7C-2V (RG-11/U equivalent) cable is used
- High-impedance monitor output for adjustment of camera angle while viewing monitor screen
- AGC (automatic gain control)
- Power supply indicator LED
- High resolution
- C-mount lens
- Power requirement: Supplied from a system monitor (BNC) 13 to 21 V DC, coaxial cable
- Power consumption: Approx. 260 mA
- Dimensions (w/o lens): 70 (W) × 74 (H) × 150 (D) mm ($2\frac{3}{4}$" × $2\frac{15}{16}$" × $5\frac{15}{16}$")
- Weight (w/o lens): Approx. 430 g (0.95 lbs)

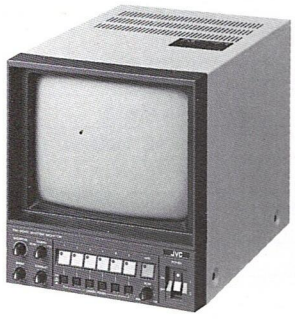
B & W System Monitors (For TK-10U/TK-S100U)

TM-9010U

FEATURES

- Designed for connection of one camera (TK-10U/TK-S100U)
- Built-in CCU for camera operation control
- Motion detector circuit whose video sensor position marker has variable size (1/30 to 1/3 of screen) and position (H and V)
- Electronic buzzer with variable volume
- Standby function which works when a picture is required only when motion detector circuit or external alarm circuit is activated
- Alarm input/output terminal
- Rack mountable to EIA 19" rack with optional rack mount adapter

TM-9060U



FEATURES

- Designed for connection of up to six cameras (TK-10U/TK-S100U)
- Buit-in CCUs for camera operation control
- Motion detector circuit for Camera-1 input whose video sensor position marker has variable size (1/30 to 1/3 of screen) and position (H and V)
- Electronic buzzer with variable volume
- Camera power ON/OFF switches are provided
- Terminals for video recorder recording/playback
- Auto-manual scanning with variable duration (0.5 sec to 30 sec)
- Standby function which works when a picture is required only when motion detector circuit or external alarm circuit is activated
- Selected video output terminal for all cameras
- Rack mountable to EIA 19" rack with optional rack mount adapter

All model numbers, specifications and prices are subject to change without notice.

BR-S925U

FEATURES

- Built-in digital memory with quad-screen display capability
- Built-in RS-232C 25-pin connector for direct computer interface.
- High-resolution S-VHS pictures with field recording/playback.
- Alarm recording with alarm/power-loss memory
- Recording time selectable from 16, 24, 48, 72, 84, 120, 168, 240, 480 and 960 hours.
- On-screen setup menu and mode display
- Series recording capability with non-interrupted recording during switch over
- Recording check function for instant playback quality check during recording
- Auto head-cleaning mechanism
- Advanced mode lock system
- Time/date generator with position control and battery back up
- Camera switching signal output with selectable intervals
- Clock calibration terminals for automatic adjustment of all connected VCR clocks to precisely the same time
- Auto-repeat recording and playback
- Still and field advance
- Shuttle search reverse, double-speed, and timelapse mode playback
- Auto-reset recording after power failure
- Front panel cover to protect cassette slot and controls from the environment
- Digital hour meter up to 9999 hours
- Electronic buzzer to signal start of alarm recording
- Electronic buzzer for tape-end warning in SP/EP recording
- Through output of EE input with power off
- Wired remote control (optional)

BR-S925U

SPECIFICATIONS

GENERAL
Power requirement: AC 120V, 60Hz
Dimensions: 435 (W) × 124 (H) × 370 (D) mm (17 - 3/16" × 4 - 15/16" × 14 - 5/8")
Weight: 10 kg (22.1 lbs.)
Temperature: Operating: 41°F to 104°F Storage: –4°F to 140°F
Operating humidity: 30% to 80%
Format: VHS/S-VHS standard
Tape speed: (SP, TL) 33.35 mm/sec (-5/16 ips), (EP) 11.12 mm/sec (7/16 ips)
Recording and playback time: 2 (VHS SP/S-VHS SP), 6 (VHS EP/S-VHS EP) 16, 24, 48, 72, 84, 120, 168, 240, 480, 960 hours (with T-120/ST-120 cassette)

VIDEO
Signal system: NTSC-type color signal/NTSC-type Y/C signal, Recording system Luminance: FM recording Color: Down-converted direct recording
Input: Line: 0.5 to 2.0 Vp-p, 75 ohms, unbalanced Y/C: Y: 0.5 to 2.0 Vp-p, 75 ohms, unbalanced C: 0.2 to 0.4 Vp-p, 75 ohms, unbalanced (Burst)
Output: Line: 1.0 Vp-p, 75 ohms, unbalanced Y/C: Y: 1.0 Vp-p, 75 ohms, unbalanced C: 0.29 Vp-p, 75 ohms, unbalanced (Burst)
Horizontal resolution: 400 lines (S-VHS, color) 240 lines (VHS, color) 300 lines (VHS, monochrome)
Signal-to-noise ratio: 45 dB (S-VHS/SP)

AUDIO
Number of tracks: 1
Input: –8 dBs, unbalanced
Output: –6 dBs, unbalanced
Frequency response: 100 Hz to 8 kHz
Signal-to-noise ratio: 40 dB (SP at 3% distortion)
Wow and flutter: Less than 0.35% RMS (SP)

TIME/DATE GENERATOR
Display: Month, day , hours, minutes, seconds, recording mode
Character size: 16H
Power back up: Approx. one year

ACCESSORIES
Provided accessories: "R6/AA/UM-3" battery x 3, Power cord x 1

All model numbers, specifications and prices are subject to change without notice.

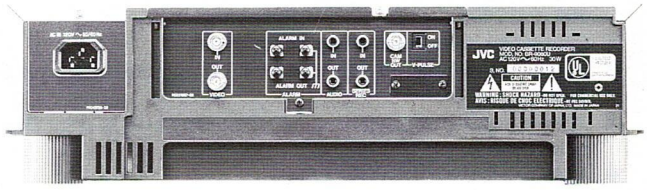
Time Lapse Video Cassette Recorders

BR-9060U

VHS®

FEATURES

- Time lapse recording with recording times ranging from 24 to 960 hours (with T-120 cassette) plus VHS SP and LP mode capability
- Unique push button combination lock system
- Built-in time date generator with battery back up
- Shuttle search at 9 times normal speed
- Auto repeat recording and playback
- Horizontal resolution of 300 lines (B/W mode)
- Alarm recording with alarm / power failure memory
- 14-day/8-event programmable timer recording
- Electronic buzzer for audible tape-end warning
- Warning LED for low backup battery power
- Sequential camera switching with selectable intervals
- V-pulse switch
- Automatic head cleaning
- Wired remote control



SPECIFICATIONS

GENERAL

Format: VHS (SP/EP), Time lapse (16H, 24H, 72H, 84H, 120H, 168H, 240H, 480H, 960H modes)

Tape width: 12.65 mm (1/2 inch)

Tape speed: 33.35 mm/s (SP mode), 11.12 mm/s (EP mode)

Recording time: 2, 6, 16, 24, 72, 84, 120, 168, 240, 480, and 960 hours with T-120 cassette

Fast forward/rewind time: Less than 4 min. for 120 min. tape

Operating temperature: 5°C to 40°C (41°F to 104°F)

Storage temperature: –20°C to 60°C (–4°F to 140°F)

Ambient humidity: 30% to 80%

Power consumption: 35Watts

Power requirement: AC 120 V ~ 50/60 Hz

Dimensions: 435 mm (W) × 124 mm (H) × 370 mm (D) (17-3/16" × 4-9/16" × 13")

Weight: 7.5 kg (17.2 lbs.)

VIDEO

Recording and playback system:
Rotary two-head helical scanning system
Luminance: FM recording
Color: Down-converted direct recording

Video signal system: NTSC-type color signal

Input (line video): 0.5 to 2.0 Vp-p, 75 ohms, unbalanced

Output (line video): 1.0 Vp-p, 75 ohms, unbalanced

Signal-to-noise ratio: 45 dB (SP)

Horizontal resolution: 240 lines (SP/Color)
300 lines (SP/B/W)

AUDIO

Number of tracks: 1

Input (line): –8 dBs, 10 k-ohms, unbalanced

Output level (line): –6 dBs, 1 k-ohm, unbalanced

Signal-to-noise ratio: 40 dB (SP) (at 3% distortion)

Signal-to-noise ratio: 40 dB (SP) (at 3% distortion)

Frequency response: 100 to 10,000 Hz (SP

Wow and flutter: Less than 0.25% W rms (SP)

TIME/DATE GENERATOR

Display: Date (year, month, day), Clock time (hours, minutes, seconds)
(Alarm input data, Power loss data)

Display position: Adjustable

Character size: 16 H

Memory back up time: Over 1 year

ALARM

Alarm input: Input grounding

Alarm output: Through out

Camera SW output: Negative pulse output (5 msec) (Open Collector)

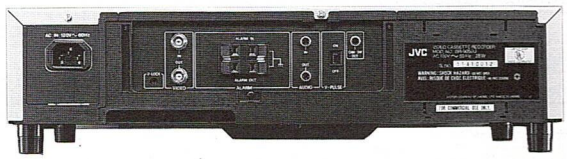
ACCESSORIES: Power cord, Switch cover
"AA" battery x 3

BR-9050U

VHS®

FEATURES

- Time-lapse recording (24/72/120/240 hours) plus VHS SP and EP capability
- Alarm recording
- Timer recording: 2-week/8-event timer
- Sequential camera switching
- Auto-repeat recording/playback
- V-pulse control switch to adapt to random interlaced cameras
- Shuttle search at 7 times normal speed
- Still, frame advance, slow and double-speed playback
- Alarm cue search
- REC and ALARM indicators
- Auto head-cleaning mechanism
- Function lock mechanism
- 5000-hour meter
- Electronic buzzer
- Time/date generator power backup



SPECIFICATIONS

GENERAL

Format: VHS (SP/EP), Time lapse (24H, 72H, 120/240H modes)

Tape width: 12.65 mm (1/2 inch)

Tape speed: 33.35 mm/s (SP mode), 11.12 mm/s (EP mode)

Recording time: 2, 6, 24, 72, 120/240 hours with T-120 cassette

Fast forward/rewind time: 4.5 min. for 120 min. tape

Operating temperature: 5°C to 40°C (41°F to 104°F)

Storage temperature: -20°C to 60°C (-4°F to 140°F)

Ambient humidity: 35% to 80%

Power consumption: 28 watts

Power requirement: AC 120 V ~, 50/60 Hz

Dimensions: 435 mm (W) × 115mm (H) × 329mm (D)
(17-3/16" × 4-9/16" × 13")

Weight: 7.8 kg (17.2 lbs)

VIDEO

Recording and playback system: Rotary four-head helical scanning system
Luminance: FM recording
Color: Down-converted direct recording

Video signal system: NTSC-type color signal

Input (line video): 0.5 to 2.0 Vp-p, 75 ohms, unbalanced

Output (line video): 1.0 Vp-p, 75 ohms, unbalanced

Signal-to-noise ratio : 45 dB (SP)

Horizontal resolution: 240 lines (SP)

AUDIO

Number of tracks: 1

Input (line): – 8 dBs, 10 k-ohms, unbalanced

Output level (line): – 6 dBs, 1 k-ohm, unbalanced

Signal-to-noise ratio: 40 dB (SP) (at 3% distortion)

Frequency response: 100 to 10,000 Hz (SP)
Wow and flutter: Less than 0.25% rms (SP)

TIME/DATE GENERATOR

Display: Date (year, month, day), Clock time (hours, minutes, seconds)

Display position: Lower right corner

Character size: 16H

Memory backup time: Less than 1 year

ALARM

Alarm input: Input grounding

Alarm output: Through out

Camera SW output: Negative pulse output

Accessories: Power Cord, Switch cover, "AA" battery × 3

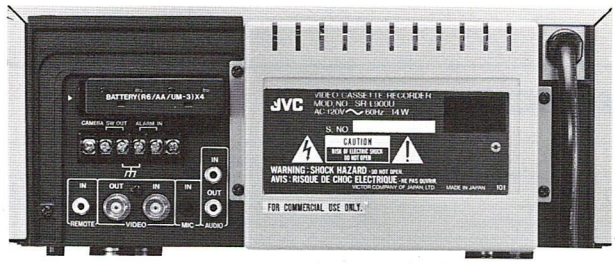
All model numbers, specifications and prices are subject to change without notice.

Timelapse Video Cassete Recorder

SR-L900U

FEATURES

- **SP/EP/24-Hour Continuous Video/Audio Recording/Playback Capability**
- **Compact Narrow-Width Design (10-7/8" wide) for Convenient Installation**
- **Key-Operated Mode Lock Function for Safe and Secure Operation**
- **Alarm Recording Capability**
- **Automatic Repeat Recording for Trouble-Free Operation and Tape Economy**
- **Automatic Re-start of Recording After Power Failure**
- **Alarm Search Capability**
- **Through Output of EE Input with Power Off**
- **Field Recording system**
- **1-Year time/date bakcup**
- **Automatic head cleaner**
- **Digital Tracking**
- **Quick-response full-loading mechanism**
- **Time/Date generator**
- **External timer recording capability**
- **Camera switching signal output**
- **Noiseless stills**
- **Shuttle Search (7 x normal in both direction)**
- **Microphone Input**
- **Wired remote control (optional)**
- **Frame advance**



SPECIFICATIONS

GENERAL	
Power requirement:	AC 120V, 60Hz
Power consumption:	14W (3W with power off)
Temperature	
Operating:	5°C to 40°C (41°F to 104°F)
Storage:	–20°C to 60°C (–4°F to 140°F)
Operating humidity:	30% to 80%
Operating position:	Horizontal only
Dimensions (WxHxD):	275 x 115 x 342 mm
	(10-7/8" x 4-9/16" x 13-1/2")
Weight:	5.0 kg (11.1 lbs)
Format:	VHS NTSC standard (SP/EP)
Tape width:	12.65 mm
Tape speed:	33.35 mm/sec (VHS SP) 11.12 mm/sec (VHS EP) 2.56 mm/sec (24H TL)
Recording and playback time:	2 (VHS SP), 6 (VHS EP), 24 hours (24H TL) with T-120 cassette
VIDEO	
Signal system:	NTSC-type color signal and EIA monochrome signal, 525 lines/60 fields
Recording system:	
Luminance: FM recording	
Chroma: Down-converted direct recording	
Input:	0.5 to 2.0 Vp-p, 75 ohms, unbalanced (BNC)
Output:	1.0 Vp-p, 75 ohms, unbalanced (BNC)
Signal-to-noise ratio:	45 dB (VHS SP)
Horizontal resolution:	240 lines (VHS SP)
AUDIO	
Number of tracks:	1 (Normal)
Input:	Line: –8 dBs, 50 k-ohms, unbalanced (RCA) Mic: –67 dBs, 600 ohms, unbalanced (Mini-jack)
Output:	–8 dBs, 1 k-ohm unbalanced (RCA)
Frequency response:	100 Hz to 10,000 Hz (VHS SP)
TIME/DATE GENERATOR	
Display:	Month, day, year, hours, minutes, seconds
Character size:	16H
ALARM	
Input:	Input-grounding type contact

ACCESSORIES	
Provided accessories:	"R6/AA/UM-3" battery x 4, Mode-lock key x 2

All model numbers, specifications and prices are subject to change without notice.

Hi-Resolution Frame Capture Camera

TK-F7300U

FEATURE

- **Compact and light weight design using a single CCD with square pixels ideal for computer image processing**
- **Capture the image with maximum resolution of 2328 x 1718 Pixels on an IBM-PC/AT compatible**
- **True color reproduction by RGB colour filter**
- **C mount for flexibility in lens selection**
- **Easy focusing through live image**
- **Can store images directly onto the AT-VISTA and NU-VISTA**

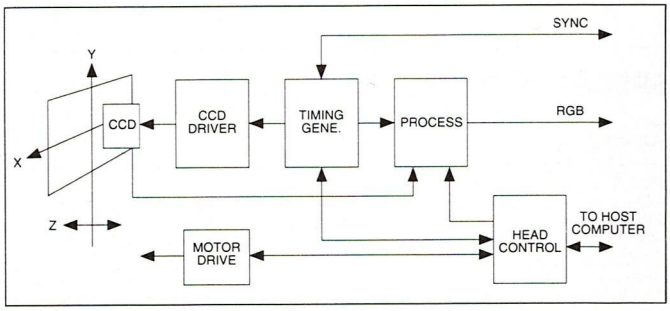
* IBM-PC/AT is a registered tsrademark of international Business Machine Ltd.

* Macintosh is a registered trademark of Apple Computer, Inc.

* AT-VISTA, NU-VISTA and NU-VISTA+ are registered trademarks of Truevision, Inc.

SPECIFICATIONS

Type:	Frame Capture Camera Head
Pickup Element:	2/3 inch CCD Solid State Image Sensor, Single CCD
Effective Number of Pixel:	756 (Horizontal x 581 (Vertical)
Number of Scanning Lines:	625 (2:1 interlace)
Synchronizing system:	Internal/External (Command Switching through communication)
Synchronizing Signal Input:	HS/VS Separate Sync System
Video Output:	R, G, B Analog Output (0.7 Vp-p, 75Ω) Composite Sync signal
Video S/N Ratio:	48 dB (Gain: 0 dB, Gamma: OFF, Knee: OFF, Shutter; Normal)
Output Connector:	D-SUB 9-Pin (Female)
Resolution (Image Size):	H736 x V576 ~ H2328 x V1718 (PC + AT VISTA) H736 x V576 ~ H4416 x V3456 (Mac + NU VISTA)
Standard Object Luminance:	2000 Lux (F4, 3200 'K)
Shutter Mode	Normal, 1/60, 1/100, 1/125, 1/250, 1/500, 1/2000, 1/4000, 1/10000
Adjustment Functions: (Command Switching) through Communication)	Gain (White Balance, Black Balance) Setup Horizontal Phase Flange Back
Lens Mount:	C-Mount
Communication System:	Based on RS-232C 9600 dBs, 8-Bit, One (1) Start Bit, One (1) Stop Bit, No parity
Power Source:	DC 12V (±10% Supplied through the Special AC Adapter)
Power Consumption:	Max. 1A (DC12V)
Operating Temperature Range:	10°C to +40°C
Operating Humidity Range:	Not More than 90% RH (Non Condention)
Maximum Outer Dimensions:	88 mm (W) x 149 mm (L) x 85 mm (H) (Tripod Base included)
Weight:	Approximately 790 g (Camera Head Only)



TK-F7300U System Diagram

Note: A variable scan type monitor (from V:15KHz~) is required due to produce the "Live" image. You can adjust the focus and iris by using this "live" picture.

Provided Accessories

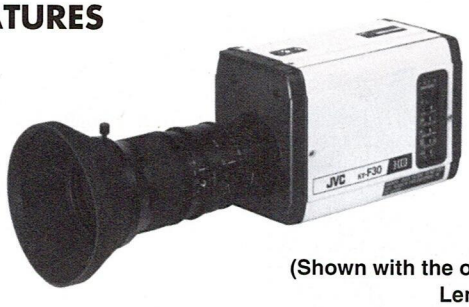
AC adaptor
Driver Software for IBM-PC
RGB Cable (AM)
RS-232C Cable for IBM-PC
RS-232C Cable for Macintosh
Driver Software for Macintosh

All model numbers, specifications and prices are subject to change without notice.

Multi-Purpose 3-CCD Color Video Camera

KY-F30BU

FEATURES



(Shown with the optional zoom Lens HZ-H713U)

- 3-CCD color camera produces high quality pictures, making it ideal for CI (computer imaging)
- High-resolution mode for vertical resolution of 480 lines
- Full-time auto white balance
- RS-232C Computer Control
- Wide range of output terminals
- Automatic switching between internal sync and external genlock
- LEDs indicate video signal output level
- Built-in electronic shutter
- Positive/negative signal selection
- Wide variety of functions

SPECIFICATIONS

COLOR VIDEO CAMERA KY-F30BU	
Image pickup device:	1/2-inch interline CCD x 3 (R, G, B)
Color separation optical system:	1/2-inch F1.4 RGB 3-color separation prism
Number of pixels:	330,000 (effective)
Color system:	NTSC (wide-band R-Y, B-Y encoder)
Synchronizing system:	Internal/external
Genlocking input: signal) BNC connector	Composite video signal, VBS, 1 Vp-p, 75-ohm (or black burst
Color bars generator:	Built-in (full color bars)
Lens Bayonet:	Bayonet (for 1/2-inch lens)
Sensitivity:	F5, 2000 lux
Practical minimum illumination:	F1.4, 20 lux (+18 dB)
Sensitivity selection:	+9 dB, +18 dB
S/N ratio (standard): bandwidth 4.2 MHz	62 dB (contour correction OFF, gamma 1, matrix OFF,
Horizontal resolution:	500 TV lines (R, G, B, Y outputs)
Vertical resolution:	480 TV lines (high-resolution shooting mode) 350 TV lines (normal shooting mode)
Registration:	All ranges, 0.05% (excluding lens distortion)
Contour correction (on /off switchable):	Horizontal dual-edged Vertical dual-edged (with 2H comb filter)
Video signal output	
RGB output (D-SUB 9-pin connector):	Composite video signal: VBS 1 Vp-p, 75 ohm R signal: 0.7 Vp-p, 75 ohm G signal: 0.7 Vp-p, 75 ohm B signal: 0.7 Vp-p, 75 ohm (without SYNC) Composite sync signal: 2 Vp-p, 75 ohm
Y/C 358 output (7-pin connector):	Y signal: VS 1 Vp-p, 75 ohm C signal: 0.286 Vp-p (burst level), 75 ohm
Video output:	Composite video signal VBS 1 Vp-p, 75 ohm, BNC connector
Electronic shutter speed:	1/60 (with high-resolution shutter set to OFF) 1/500 (with high-resolution shutter set to ON)
Lens connector:	For HZ-713
Remote input:	Compatible with the RM-LP80
Power source:	12 V DC (10.5 to 15 V)
Current consumption:	1.3 A
Operating temperature range:	-5°C to +45°C
Weight:	1.8 kg (without lens)
Accessories D-SUB 9-pin cable assembly:	SCV1698-001, 5m
Power Cable:	SCV2155-001, 4m

KY-F30FITU

FEATURES

- Superior High-Resolution Pictures by use of 3 FIT CCDs with 360,000 (effective) pixels.
- Full-Time Auto White Balance
- Wide range of output terminals: D-SUB 9-pin (R.G.B./sync/composite, D-SUB 9-pin cable provided),
- Y/C 443 and BNC terminals
- Automatic switching between internal sync and external genlock
- LEDs indicate video signal output level
- Built-in electronic shutter with speeds selectable from 1/50, 1/120 and 1/500 sec.
- Positive/negative signal selection
- 2H contour correction circuit with ON/OFF switch
- Built-in color bars generator
- Flicker-free mode
- Input terminal for local remote control (RM-LP80U, optional)
- Can be controlled by computer via RS-232C
- Can be used with microscopes (NIKON/OLYMPUS/ZEISS) with suitable optical adapters (HZ-M151U/HZ-M152U/HZ-M153U)

SPECIFICATIONS

Image pickup device:	1/2-inch frame interline CCD x 3 (R, G, B)
Color separation optical system:	1/2-inch F1.4 RGB 3-color separation prism
Number of pixels:	360,000 (effective)
Color system:	NTSC (wide-band R-Y, B-Y encoder)
Synchronizing system:	Internal/external
Genlocking input:	Composite video signal, VBS, 1 Vp-p, 75-ohm (or black burst signal) BNC connector
Color bars generator:	Built-in (full color bars)
Lens mount:	Bayonet (for 1/2-inch lens)
Sensitivity:	F5, 2000 lux
Practical minimum illumination:	F1.4, 20 lux (+18 dB)
Sensitivity selection:	+9 dB, +18 dB
S/N ratio (standard):	60 dB (contour correction OFF, gamma 1, matrix OFF, bandwidth 4.2 MHz)
Horizontal resolution:	700 TV lines (Y channel) 540 TV lines (R, G, B outputs)
Vertical resolution:	350 TV lines
Registration:	All ranges, 0.05% (excluding lens distortion)
Contour correction (on/off switchable):	Horizontal dual odged Vertical dual-edged (with 2H comb filter)
Video signal output	
RGB output (D-SUB 9-pin connector):	Composite video signal: VBS 1 Vp-p, 75 ohm R signal: 0.7 Vp-p, 75 ohm G signal: 0.7 Vp-p, 75 ohm B signal: 0.7 Vp-p, 75 ohm (without SYNC) Composite sync signal: 2 Vp-p, 75 ohm
Y/C 358 output (7-pin connector):	Y signal: VS 1 Vp-p, 75 ohm C signal: 0.286 Vp-p (burst level), 75 ohm
Video output:	Composite video signal VBS 1 Vp-p, 75 ohm, BNC connector
Electronic shutter speed:	1/60 (normal shutter mode), 1/100 (shutter 1), 1/500 (shutter 2)
Lens connector:	For HZ-713MDU
Remote input:	Compatible with the RM-LP80
Power source:	12 V DC (10.5 to 15 V)
Current consumption:	1.3 A
Operating temperature range:	-5°C to +45°C
Weight:	1.8 kg (without lens)

All model numbers, specifications and prices are subject to change without notice.

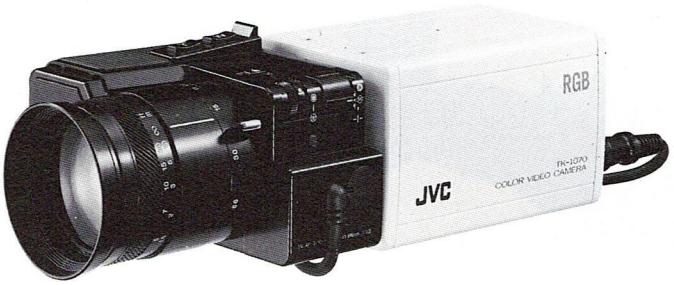
RGB Frame Capture Camera

TK-1070U

FEATURES

- 2/3-inch CCD (768 × 492 elements, with RGB filter)
- True color capability
- Horizontal resolution of more than 480 TV lines
- RGB via D-sub 9-pin socket plus Y/C and composite video outputs
- C-mount lens capability
- Gain-up function
- Selectable gamma correction (0.45/1.0)
- Aperture switch
- Shutter speeds of 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000 and 1/10000 second
- Auto white ballance: Auto/Manual/ Preset (3200K)
- Compatible with VISTA*, TARGA* and other image capture boards

*VISTA and *TARGA are the registered trademark of Truevision, Inc.



Lens optional (HZ-C611AF (U))

SPECIFICATIONS

Signal system: Based on NTSC standard	Lens mount: C mount
Pick up element: 2/3" CCD (768 (H) × 492 (V) pixels)	Operating temperature: 0° to 40°C
Power requirement: 12V DC (±10%)	Video outputs: Composite video signal: 1.0 Vp-p, 75 ohms R/G/B: 0.7 Vp-p, 75 ohms Separate YC Signal: Y: 1.0 Vp-p, 75 ohms C: 0.286 Vp-p, 75 ohms
Power consumption: 7.5W	Sync reference output: 0.3 Vp-p, 75 ohm (VBS)
Resolution: 480 TV lines (640 × 400 pixels)	Dimensions: 81 (W) × 72 (H) × 123 (D) mm (3-3/8"x 3-1/3"x 4-3/4")
Synchronizing system: Internal/External (VBS or BB, H.V.-lock (Sub-carrier Free))	Weight: Approx 690g (only body)
Video S/N: 47 dB (at 1000 lux)	
Minimum required illumination: 15 lux at F1.4	
Color temperature setting: 1) Auto 2,800 ~ 6,000°K (Set Memory type 6 bit) 2) Manual 2,800 ~ 7,000°K (2 Peculier Axes System) 3) Pre-set 3,200°K	

Optional Accessories

AC-C712
AC Adapter Kit

HZ-C611AF(U)
C-mount Autofocus Lens (X6)

VC-451-2U
Camera Cable

Connecting between:
TK-1070U and RGB Monitor
Cable length: 6.6 ft (2 m)

VC-452-2U
VC-452-4U
Camera Cable

Connecting between:
TK-1070U and Graphic Boards
Cable length:
6.6 ft (2 m) for VC-452-2U
13.2 ft (4 m) for VC-452-4U

VC-463-2U
Camera Cable

Connecting between:
TK-1070U and Graphic Boards
Cable length: 6.6 ft (2 m)

VC-464-4U
Camera Cable

Connecting between:
TK-1070U and Targa +
Cable length: 13.2 ft (4 m)

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Product and Accessory Reference Guide

MODEL NO.	DESCRIPTION	PAGE
A-G10U	AC Adapter/Battery Charger for NB-G1U	10, 24
AA-P200U	Snap on Type AC Adapter for KY Cameras KY-27U/17BU/17FITU	7
AA-P250U	AC Adapter/Charger for KY Series Cameras KY-35U/KY-27U/KY-17BU/KY-17FITU GY-X1TCAUL14	7, 10
AC-C612	AC power adapter for the TK-880U(L)/ TK-885U/TK-980U/TK-1080U/TK-1085U 120 VAC input/12 VDC output	
AC-C712	AC Adapter for TK-1070U	65
BH-P10U	Battery Holder for GY-X1TCAUL14	10
BH-P20U	Battery Holder for KY-27U/17BU/17FITU Holder snaps onto the camera's rear end. Uses NB-G1 battery	7
BH-P40U	Battery Holder for BR-S411U/BR-S411UB/ NB-G1U	
BH-P80U	Battery Holder	
BR-3200U	VHS Recorder/Player	33
BR-7020U	Hi-Fi VHS Duplicator	30
BR-7030UB	3-in-1 VHS Hi-Fi Duplicator	29
BR-7040UB	3-in-1 VHS Hi-Fi Duplicator	28
BR-7700U	Heacy Duty 2 Hour VHS Hi-Fi Recorder/Player	32
BR-8600U	VHSEditing Recorder	32
BR-9050U	Timelapse Video Cassette Recorder (max 240H)	61
BR-9060U	Timelapse Video Cassette Recorder (max 960H)	61
BR-S378U	S-VHS Video Recorder	22
BR-S405U	S-VHS Portable Recorder	14
BR-S420CU	S-VHS-C Dockable Recorder	15
BR-S422U	Professional S Dockable Recorder	13
BR-S601MU	S-VHS Video Recorder	21
BR-S605UB	S-VHS Recorder/Player	20
BR-S611U	S-VHS Recorder/Player High quality recorder/player for feeding of editing systems. Over 400 lines of resolution. Separate Y/C output, 45 pin remote control	19
BR-S622U	S-VHS Recorder/Player	17
BR-S747U	3-in-1 S-VHS Duplicator	27
BR-S777U	3-in-1 S-VHS Duplicator	27
BR-S811U	S-VHS Editing Recorder Professional quality editing recorder with jog control. Over 400 lines esolution, separate Y/C output, 45 pin remote control	19
BR-S822U	S-VHS Editing Recorder	18
BR-S925U	Professional S Timelapse VCR	60
CB-P27U	Carrying Case for KY-27U	7
CB-P350U	Carrying Case for KY-35U	3
CB-P410U	System Carrying Case for KY-27U/17BU/FITU	7
DC-C11U	2.2AH Battery Pack for KY-17BU/FITU KY-27U Charger is AA-P250U	
DC-C50U	3.5AH Nicad Battery for KY Cameras	
GY-X1TCAUL14	3-CCD Camera with S-VHS-C Recorder	9
GY-X2U	3-CCD Color Video Camcorder Full Casstte	11
HZ-513U	13:1 Zoom Lens for KY-27U (2/3" Bayonet Mount)	
HZ-516BU	16:1 Servo Zoom Lens for KY-27U, This Fujinon f/1.8 lens has a zoom focal range of 9.5 to 152mm. A macro function is included	7

MODEL NO.	DESCRIPTION	PAGE
HZ-713U	13:1 Zoom Lens for KY-17BU/FITU (1/2" Bayonet Mount)	6, 7
HZ-714U	14x Zoom Lens	10
HZ-C611AF (U)	C-Mount Autofacus Lens for TK-870U/1O70U 11-66mm power zoom lens with C-Mount for 2/3" CCD cameras. Has auto focus, auto/manual iris, macro, remote control	65
HZ-CA23U	C-Mount Lens Adapter for BAYONET MOUNT CAMERA	
HZ-FM13U	Manual Focus Control for KY- 27U/HZ513•516B KY-17BU/FITU/HZ-713U Attaches to the lens and tripod for studio use	7
HZ-H713U	13x Zoom Lens	
HZ-M151U	Microscope Adapter for NIKON	
HZ-M152U	Microscope Adapter for OLYMPAS	
HZ-M153U	Microscope Adapter for ZEISS	
HZ-MC73U	Mount Adapter	10
HZ-NK15U	Nikon Lens Adapter for KY-17BU/FITU	
HZ-NK23U	Nikon Lens Adapter for KY-27U	
HZ-ZS13BU	Servo Zoom Control for KY-27U/KY-17BU/FITU/HZ-713U	7
KA-35U	Camera Adapter	1, 2
KA-111U	Adjustable Chest Rest for the Camera. Flip-out type chest brace for the camera	
KA-220U	Shoulder Pad for Camcorder Version, KY-27U/KY-17BU/FITU	
KA-231U	Carring Handle (KY-27U/KY-17BU/FITU)	
KA-232U	Carrying Handle for Camcorder Version (KY-27U/KY-17BU/FITU)	
KA-280U	Bulk Connector for VC-P110 Series Cable, BC-P110U/P112U/P113U/P114U Maximum extendable length between camera head and RM-P200U is 105 meters (VC-P110U + KA-280U + VC-P114U)	
KA-500XU	Tripod Mounting Plate for KY/BY/GY Cameras This unit, supplied with the camera, mounts to the tripod enabling quick release of camera	10
KA-1000U	Custom IC Card	10
KA-A10U	Mic Holder for MV-P612U	10
KA-B35U	Betacam Adapter for KY-90U/35U	3
KA-F10U	Filter Set	10
KA-LP10U	Lens Exchange Connector	10
KA-M35U	MII Adapter for KY-90U/35U	3
KA-M20U	MII Adapter for KY-27U/17BU/FITU Series	
KA-B20U	Betacam Adapter for KY-28U/17BU/FITU	
KA-M50U	Pistol Handgrip for M-K50U Allows the M-K50U microphone (hot shoe) to be operated in hand held fashion	
KM-1200U	Portable Special Effects Generator	40
KM-1600U	S-VHS Special Effects Generator	41
KM-2500U	Special Effects Generator	42
KM-3000U	Component Type Special Effects Generator	40
KM-D600U	Y/C Digital Effects Generator	39
KM-E300U	Border Generator	40
KM-F250U	Multi-Signal Standard Frame Synchronizer RM-P250U Remote Control Built-in transcoder accepts NTSC, Y-688, Y-3.58, and outputs same, full frame TBC, field/frame freeze, conforms to 4:2:2	38
KY-17BU	1/2" Three IT CCD Color Camera	6
KY-17FITU	1/2" Three FIT CCD Color Camera	6

All model numbers, specifications and prices are subject to change without notice.

Product and Accessory Reference Guide

MODEL NO.	DESCRIPTION	PAGE
KY-35U	2/3" Three IT CCD Color Camera	2
KY-90U	2/3" Three FIT CCD Color Camera	1
KY-F30BU	Multi Purpose 1/2" Three CCD Color Camera	64
KY-F30FITU	Multi Purpose 3-CCD Color Video Camera	64
M-510XL	Electret Condenser Microphone Any KY-Series Cameras. uni-directional (picks up from the front only). Has short cable which plugs into camera, and longer one to plug into deck	
MI-1200U	Rack Mount Audio Mixer (AC/DC)	44
MI-2000U	Rack Mount Audio Mixer	44
MI-3000U	Audio Mixer w/VCA units	43
MI-F30U	Auto Fader Unit for MI-3000U	43
MI-P2E	AC-DC Converter for MI-2000U Mixer.	
M-K50U	"Hot-Shoe" Microphone for BY/KY Cameras KY-17BU/FITU and KY-27U mounts to side of camera without cable. Power is provided by the camera	7
MV-P602U	Stereo Microphone for KY-27U/17BU/FITU Mounts to side of camera without cable. Power is provided by the camera. Stereo and monaural are switchable	7
MV-P612U	Stereo Microphone for GY-X1TCAUL14	11
NB-G1U	Rechargeable Battery pack	10, 24
RM-G30U	Serial Remote Control Unit	24, 26
RM-G61U	Remote Control Unit for BR-S600U/BR-S601MU	25
RM-G77U	Serial Remote Controller for BR-S777U/ BR-7000UA/BR-7030U/BR-7040U	25, 31
RM-G80U	Remote Control Unit for VCRs BR-8600U, BR-7700U	
RM-G810U	Editing Controller (45p, parallel)	36
RM-G860U	A/B Roll Editing Control Unit	35
RM-G870U	A/B Roll Editing Controller	34
RM-P200U	Remote Control Unit for KY-27U/17BU/FITU. Provides power and remote control of the camera functions up to 100 meters away. For studio or remote OB van. Requires VC-P110 series cable	7, 8
RM-P250U	Remote Control Unit for KM-F250U	38
RM-P300U	Remote Control Unit for KY-90U/KY-35U	4
RM-LP80U	Local Remote Control Unit	4, 10
RM-LP821U	Panel Remote Control Unit	4
S16X7BRMU	16 x Power Zoom Lens for KY-17BU/FITU	7
SA-CP11U	C Cassette Adapter	10, 25
SA-D810U	Y/C Distribution Amplifier	26
SA-D820U	Y/C Distribution Amplifier	26
SA-E68U	Y/C 688 Output Board	26
SA-E100U	Y/C Separator	26
SA-F15U	Interface Unit for BR-S601MU	25
SA-K14U	Plug-in ID Code Generator for BR-7030U/BR-7040U	31
SA-K15U	ID Code Display for BR-S777U/BR-7030U/ BR-7040U/BR-S747U	31
SA-K17U	RS-232C Board for BR-S605U	20
SA-K18U	45-pin Board for BR-S605U	20, 25
SA-K19U	Timer Record/Play Board for BR-S605U	
SA-K27U	RS-232C Remote Board	20, 26
SA-K28U	45-pin Remote Board	26
SA-K33U	33-pin Remote Board	20, 25
SA-K63U	Rack Mount Kit for BR-S811U/BR-S611U	26
SA-K63UB	Rack Mount Kit for BR-S822U/BR-S622U	17, 24
SA-K721U	Checkout Connector for BR-7020U	31

MODEL NO.	DESCRIPTION	PAGE
SA-K722U	Test Point Unit for BR-7020U	
SA-K723U	Multi-Display Unit for BR-7020U	31
SA-L30U	Auto Cassette Loader for BR-7040U	28, 31
SA-L50U	Auto Cassette Loader for BR-7020U	31
SA-N22W	Digital Noise Reducer	26
SA-R22U	TC Generator/Reader	26
SA-R200U	Time Code Generator	13, 25
SA-S10U	Battery Holder for NB-G1U	25
SA-S11U	Battery Holder for NP-1	25
SA-S41U	Interface Adapter for BR-S411U/BR-S411UB	
SA-T22U	TBC Board	26
SA-T411U	S-VHS TBC/Noise Reducer	37
SR-L900U	Timelapse VCR	26
SR-S360U	S-VHS Player/Recorder	23
ST-30PRO	PROFESSIONAL S Cassette Tape (30 min.)	24
ST-60PRO	PROFESSIONAL S Cassette Tape (60 min.)	24
ST-120PRO	PROFESSIONAL S Cassette Tape (120 min.)	24
SC-PRO20/30	S-VHS-C Professional Tape (20 min.)	24
TK-10U	2/3" Vidicon Tube B/W Camera (require TM-9010U/TM-90760U)	59
TK-885U	1/2" CCD Color Camera (lens not included) C/CS-mount, TTL auto white. Compact, lightweight, easy to use, color camera. 12V DC	55
TK-900U	1/2" CCD Color Camera with Separate CCU	56
TK-980U	1/2" CCD Color Camera	55
TK-1070U	RGB Frame Capture Camera	
TK-1080U	1/2" CCD Color Camera	
TK-1085U	1/2" CCD Color Camera	54
TK-1180U	CCD Color Video Camera	53
TK-1280U	CCD Color Video Camera	53
TK-F7300U	Hi Resolution Frame Capture Camera	63
TK-S10U	1/2" B/W CCD Camera with Separate CCU	56
TK-S100U	1/2" B/W CCD Camera	59
TK-S200U	1/2" B/W CCD Camera	57
TK-S240U	1/3" CCD B/W Video Camera	58
TK-S300U	1/2" B/W CCD Camera	57
TK-S400U	1/2" B/W CCD Camera	57
TK-U1003U	Camera Control Unit for TK-1OU	
TK-U1004U	Camera Control Unit for TK-1OU	
TK-U1402U	Camera Control Unit for TK-S100U	
TM-9U (A)	9" Color Monitor	48
TM-13U	13" Color Monitor	49
TM-91SU	9" Monitor with S-VHS Input	48
TM-122U	11.5" B/W Monitor	52
TM-270SU	27" Color Monitor	50
TM-550U	6" Color Monitor	49
TM-900SU	9" Color Monitor	47
TM-920U	8.5" B/W Monitor	52
TM-1400SU	14" Color Monitor	47
TM-2080SU	20" Stereo Color Monitor/Receiver	51
TM-2760SU	27" Stereo Color Monitor/Receiver	
TM-3151SU	31" Stereo Color Monitor/Receiver	50
TM-9010U	9" B/W System Monitor w/one CCU	59
TM-9060U	9" B/W System Monitor w/6 CCUs	59

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MODEL NO.	DESCRIPTION	PAGE
TM-R9U	9" Color Monitor	46
TM-R14U	14" Color Monitor	46
VC-202U	8 Pin to 8 Pin Monitor Cable Provides audio and video connections between VCR and monitor/receiver	
VC-451-2U	Camera Cable (TK-1070U-RGB Moniter, 2m)	65
VC-452-2U/4U	Camera Calbe (TK-1070U and Graphic board, 2/4m)	65
VC-463-2U	Camera Cable (TK-1070U and Graphic Board, 2m)	65
VC-464-4U	Camera Cable (TK-1070U and Targa + 4 m)	65
VC-512BU	4M VCR Cable (14P-14P) for KY/BY Cameras. 4 meter cable with balanced audio for 14 pin VCRs	
VC-582BU	33' Camera Extension Cable (10P to 10P). Extension cable for VC-511CU-2	
VC-586U	16' Extension Cable for AA-C50U This is an extension power cable (12 volts) which goes between the camera and AC adapter	
VC-589BU	Extension Cable for VC-P474U, VC-512BU 14p VTR Cable KY-27U/17BU/FITU	7
VC-G1015U	Y/C Cable (7 pin male to 7 pin female), 1.5m	24
VC-G1025U	Y/C Cable (7 pin male to 7 pin female), 2.5m	24
VC-G1035U	Y/C Cable (7 pin male to 7 pin female), 3.5m	24
VC-G1050U	Y/C Cable (7 pin male to 7 pin female), 5m	24
VC-G2030U	Y/C Cable (7 pin male to 4 pin S type), 3m	24
VC-G205OU	Y/C Cable (7 pin male to 4 pin s type), 5m	24
VC-G3030U	Y/C Cable (4 pin S type to 7 pin female), 3m	24
VC-G7050U	Y/C 45p-45p Control Cable (parallel)	24, 35
VC-G9050U	Y/C Cable (9 pin male to 9 pin female), 5m	24,34
VC-P110U Series	16.25 feet in length, (5m) VC-P112U, 65 feet in length, (20m), VC-P113U,162.5 feet in length, (50m), VC-P114U, 325 feet in length, (100m) Camera Cable	26p-26p
VC-P454BU	4M VTR Cable (26p-26p) for KY-90U/35U/27U/ 17BU/17FITU 4 meter cable with balanced audio for MII recorder. Also, this cable is used to connect the KA-3U (adapter for component output from KY series) MII/ Betacam	R VTR
VC-P462U (2 m)	VTR Cable (26p-10p) between KY-90U/35U/	
VC-P464U (4 m)	27U/17BU/17FITU 10 pin VTR such	7
VC-P472U (2 m)	VTR Cable (26p-14p) for KY-90U/35U/27U/	
VC-P474U (4 m)	17BU/17FITU 4 meter cable with balanced audio for14 pin type U-VCR	7
VC-P482U (2 m)	VTR Cable (26p-14p) for KY-35U/27U/17BU/	
VC-P484U (4 m)	17FITU 2 meter cable with balanced audio for14 pin type S-VHS VTR	7
VC-P630U	Extension S-VHS VTR Cable, (14p-14p). 10m	7
VF-P550U	5.5" Studio Viewfinder for KY Cameras KY- 90U/KY-35U. High resolution studio view finder (B & W) provides a full scan image with normal scan indication on screen. Has pan & tilt	3
VF-P400U	4" Studio Viewfinder for KY-27U/17BU/17FITU. 4" black/white studio view finder for the application of OB van or studio use	7
VF-P10U	1.5" Viewfinder for KY-17BU/17FITU	7
VF-P115U	1.5" Viewfinder for KY-27U/GY-X1TCAUL14	7,10
VF-P315U	1.5" Viewfinder for KY-90U/35U. Ruggedly designed viewfinder with up, down, left, right functions, diopter and hot-shoe connection	3
VM-R140SU	14" Multi-format Color Monitor	45
VM-R190SU	19" Multi-format Color Monitor	45

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